

1
Nicholson
Whaling
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Wh
C625
1837j

Chronometer 9.39.20
July 25th day 25
Watch time 8.50.23

11.37.48.55 Difference

George S. Byington

11.37

9.21

1.58

1.39.20

8.50.21

4.58.59



The Rule of Three Direct

The Rule of Three Direct Teaches by having three numbers given to find a fourth which shall have the same proportion to the third as the second has to the first

Examples

If 2 cwt 3 qrs 21 lb. of sugar cost £15.8d what cost 35 1/4 cwt

$$\begin{array}{r}
 \text{Cwt} \quad \text{qr} \quad \text{lb} \quad : : \quad \text{£} \quad \text{s} \quad \text{d} \quad : : \quad \text{Cwt} \quad \text{qr} \quad \text{lb} \\
 2 \quad 3 \quad 21 : : 6 \quad 1 \quad 8 : : 35 \quad 1 \quad 0 \\
 \hline
 4 \quad \quad \quad 20 \quad \quad \quad 4 \\
 11 \quad \quad \quad 121 \quad \quad \quad 141 \\
 \hline
 28 \quad \quad \quad 12 \quad \quad \quad 38 \\
 109 \quad \quad \quad 1460 \quad \quad \quad 1128 \\
 22 \quad \quad \quad \quad \quad \quad 282 \\
 \hline
 329 \quad \quad \quad 3948 \\
 \quad \quad \quad 1460 \\
 \hline
 \quad \quad \quad 236880 \\
 \quad \quad \quad 15792 \\
 \quad \quad \quad 3948 \\
 \hline
 329 \quad 576408 \quad 0.217520 \\
 \quad \quad 329 \quad \quad \quad 1460 \\
 \quad \quad 2474 \quad \quad \quad 73 \\
 \quad \quad 2303 \\
 \hline
 \quad \quad 1710 \\
 \quad \quad 1645 \\
 \quad \quad \quad 658 \\
 \quad \quad \quad 658 \\
 \hline
 \quad \quad \quad 0
 \end{array}$$

Bought 10 pieces of cloth each piece containing 9 3/4 Yards at 11s 4 1/2 pence per yard what did the whole come to

$$\begin{array}{r}
 \text{yd} \quad \text{qr} \quad \text{p} \quad : : \quad \text{yd} \quad \text{qr} \quad \text{p} \\
 1 : : 11 \quad 4 \quad 2 : : 97 \quad 2 \\
 \hline
 4 \quad \quad \quad 12 \quad \quad \quad 4 \\
 4 \quad \quad \quad 136 \quad \quad \quad 390 \\
 \hline
 \quad \quad \quad 546 \\
 \quad \quad \quad 390 \\
 \hline
 \quad \quad \quad 49140 \\
 \quad \quad \quad 1638 \\
 \hline
 4 \quad 212940 \\
 4 \quad 53235 \\
 12 \quad 13308 \quad 3/4 \\
 20 \quad 11090 \\
 \hline
 \quad \quad 5590 \quad 3/4
 \end{array}$$

Federal Money

Note: you must state the question as taught in the Rules foregoing and after reducing the first & third terms to the same name & you may multiply & divide according to the rules in decimals or by the rules for multiplying & dividing Federal Money

Examples

Bought 4 pieces of cloth each piece containing 31 yds at 16s 6d per yard (New England currency) what does the whole amount to in federal money

$$\begin{array}{r}
 1 : : 16 \quad 6 : : 124 \\
 \hline
 12 \\
 198 \\
 124 \\
 \hline
 792 \\
 396 \\
 \hline
 198 \\
 12 \quad 24552 \\
 6 \quad 2046 \\
 \hline
 \quad \quad 341
 \end{array}$$

A merchant bought 14 pipes of wine at 11s 4 1/2 pence per gallon 6 months credit but for ready money gets it 8 cents a gallon cheaper how much did he save by paying ready money

$$\begin{array}{r}
 \text{Gal} \quad \text{per} \quad \text{pipes} \\
 1 : : 8 : : 14 \\
 \hline
 28 \\
 63 \\
 \hline
 84 \\
 168 \\
 \hline
 1764 \\
 \hline
 14112
 \end{array}$$

Examples Promiscuously placed

Bought of Mr Greer 11 cwt 3 qrs of sugar at 8 dollars 12 cents per cwt & gave him James Paynell's note for 195.75 New England currency the rest I pay incash tell me how many dollars will make up the balance

$$\begin{array}{r}
 \text{c} \quad \text{qr} \quad \text{lb} \\
 1 : : 8.12 : : 11.3.0 \\
 \hline
 4 \\
 4 \\
 28 \\
 32 \\
 8 \\
 \hline
 112
 \end{array}
 \quad
 \begin{array}{r}
 \text{c} \quad \text{qr} \quad \text{lb} \\
 4 \\
 47 \\
 28 \\
 376 \\
 94 \\
 \hline
 1316 \\
 812 \\
 \hline
 2632 \\
 1316 \\
 \hline
 10528 \\
 112 \overline{) 1068592} \quad 95.41 \\
 \underline{1008} \\
 605 \\
 560 \\
 \hline
 459 \\
 448 \\
 \hline
 112 \\
 112
 \end{array}
 \quad
 \begin{array}{r}
 \$ \\
 195.75 \\
 20 \\
 \hline
 387 \\
 64.50 \\
 \hline
 64.50
 \end{array}$$

A merchant bought a bale of cloth containing 240 yds at the rate of 7 1/2 dollars for 5 yards & sold it again at the rate of 11 1/4 dollars for 7 yds did he gain or lose by the bargain & how much

$$\begin{array}{r}
 \text{yds} \quad \text{c} \quad \text{q} \quad \text{r} \quad \text{d} \\
 5 : : 7.50 : : 240 \\
 \hline
 12000 \\
 1680 \\
 \hline
 13680 \\
 5 \overline{) 13680} \\
 \hline
 36000 \\
 \hline
 \text{yds} \quad \text{c} \quad \text{q} \quad \text{r} \quad \text{d} \\
 7 : : 11.25 : : 240 \\
 \hline
 45000 \\
 2250 \\
 \hline
 27000 \\
 7 \overline{) 27000} \\
 \hline
 38571.3 \\
 36000.0 \\
 \hline
 2571.3
 \end{array}$$

A gentleman bought 18 pipes of wine at 12 1/2 New Jersey currency per gallon how many dollars will pay the purchase

$$\begin{array}{r}
 \text{pipes} \\
 1 : : 12.5 : : 18 \\
 \hline
 12 \\
 150 \\
 \hline
 36 \\
 63 \\
 \hline
 108 \\
 216 \\
 \hline
 2268 \\
 150 \\
 \hline
 113400 \\
 2268 \\
 \hline
 90 \overline{) 340200} \\
 \hline
 3780
 \end{array}$$

Bought a quantity of plate weighing 13 lb 11 oz 43 gr 17 gr how many dollars will pay for it at the rate of 123.72 New York currency per ounce

$$\begin{array}{r}
 \text{lb} \quad \text{oz} \quad \text{gr} \\
 1 : : 123.72 : : 13.11.13.17 \\
 \hline
 20 \quad 12 \quad 12 \\
 \hline
 20 \quad 151 \quad 191 \\
 \hline
 24 \quad 120 \\
 \hline
 80 \quad 3833 \\
 \hline
 40 \quad 24 \\
 \hline
 480 \quad 15344 \\
 \hline
 480 \quad 7666 \\
 \hline
 480 \quad 92009 \\
 \hline
 480 \quad 151 \\
 \hline
 480 \quad 92009 \\
 \hline
 480 \quad 4600459 \\
 \hline
 480 \quad 92009 \\
 \hline
 480 \quad 4293 \\
 \hline
 480 \quad 3840 \\
 \hline
 480 \quad 4533 \\
 \hline
 480 \quad 4320 \\
 \hline
 480 \quad 2135 \\
 \hline
 480 \quad 1920 \\
 \hline
 480 \quad 2159 \\
 \hline
 480 \quad 1920 \\
 \hline
 12 \overline{) 2894444} \quad 2390 \\
 \hline
 8 \overline{) 241204} \quad 1920 \\
 \hline
 3015005 \\
 \hline
 10 \overline{) 380} \quad 38 \quad 19 \\
 \hline
 480 \quad 48 \quad 24
 \end{array}$$

A factor bought a certain quantity of broadcloth & drugget which together cost 81 lb the quantity of broadcloth was 50 yds at 18s per yds for every 5 yards of broadcloth he had 7 yards of drugget & demand how many yards of drugget he had & what it cost him per yd

$$\begin{array}{r}
 \text{yds} \quad \text{s} \quad \text{d} \\
 5 : : 9 : : 50 \\
 \hline
 50 \\
 5 \overline{) 450} \\
 \hline
 90 \text{ yards} \\
 \hline
 81 \\
 43 \\
 \hline
 36
 \end{array}
 \quad
 \begin{array}{r}
 \text{yds} \quad \text{s} \quad \text{d} \\
 1 : : 18 : : 50 \\
 \hline
 50 \\
 20 \overline{) 900} \\
 \hline
 45 \\
 \hline
 90 : : 36 : : 1 \\
 \hline
 36 \\
 20 \\
 \hline
 90 \overline{) 720} \\
 \hline
 8 \text{ s per yd}
 \end{array}$$

The Rule of Three Inverse

The Rule of Three Inverse teaches by having three numbers given to find a fourth which shall have the same proportion to the second as the first has to the third

Examples

Suppose 650 men are in a garrison & their provisions calculated to last but two months how many men must leave the garrison that the same provisions may be sufficient for those who remain five months

$$\begin{array}{r} \text{men} \quad \text{men} \quad \text{men} \\ 2 :: 650 :: 5 \\ 5 \overline{) 1300} \\ \underline{260} \end{array}$$

What is

A regiment of soldiers consisting of 850 men are to be clothed each suit to contain $3\frac{1}{2}$ yds of cloth which is $1\frac{3}{4}$ yards wide & lined with shalloon $\frac{3}{4}$ yard wide how many yards shalloon will complete the lining

$$\begin{array}{r} 850 \\ \underline{3\frac{1}{2}} \\ 425 \\ 2550 \\ 1\frac{3}{4} :: 2975 :: 3\frac{1}{4} \\ \frac{4}{7} \overline{) 20825} \\ \underline{6941} \quad 2 \\ \underline{38} \quad 2 \\ \underline{22} \quad 4 \\ \underline{38} \quad 2\frac{2}{3} \end{array}$$

Tare And Trett

Tare & Trett are practical Rules for deducting certain allowances which are made by merchants in buying & selling goods so by weight in which are noticed the following particulars

Examples

What is the neat weight of 7 cures of rice each weighing 4 cwt 19 lb gross tare per sicke 34 lb

$$\begin{array}{r} 4 \text{ cwt } 19 \text{ lb} \\ \underline{7} \\ 30 \text{ cwt } 1 \text{ lb} \\ \underline{28 \text{ cwt } 0 \text{ lb } 21} \end{array}$$

What is the neat weight of 15 hhd of Tobacco each weighing 7 cwt 13 lb tare 100 lb per hhd

$$\begin{array}{r} 7 \text{ cwt } 13 \text{ lb} \\ \underline{15} \\ 110 \text{ cwt } 1 \text{ lb } 27 \\ \underline{13 \text{ cwt } 1 \text{ lb } 16} \\ 97 \text{ cwt } 0 \text{ lb } 11 \end{array}$$

In 241 bbl of figs each 34^{lb} 19^{lb} gross tare 10 lb per barrel how many pounds neat

$$\begin{array}{r} 0 \text{ cwt } 3 \text{ lb } 19 \\ \underline{4} \\ 28 \\ \underline{33} \\ 7 \\ \underline{103} \\ 241 \\ \underline{103} \\ 306 \\ \underline{248} \quad 23 \\ 2410 \\ \underline{22413} \end{array}$$

Tare And Trett

Case 3

When the tare is at so much per cwt Divide the gross weight by the aliquot part of a cwt for the tare which subtract from the gross & the remainder will be neat weight

Examples

What is the neat weight of 7 bbls of pot ash each weighing 201 lb gross tare 10 lb per cwt

$$\begin{array}{r} 201 \\ 7 \\ \hline 8 \text{ } 14 \text{ } 07 \text{ } 0 \\ 2 \text{ } 14 \text{ } 25 \text{ } 2 \\ \hline 12816 \end{array}$$

What is the value of the neat weight of 8 hhd of sugar at 89.54 cts per cwt each weighing 10 cwt 1 gr 14 lb gross tare 14 lb per cwt

$$\begin{array}{r} 10 \text{ } 1 \text{ } 14 \\ 8 \\ \hline 112 \end{array}$$

In 83 cwt 3 qrs gross tare 20 lb per cwt what neat weight

$$\begin{array}{r} 83 \text{ } 3 \text{ } 0 \\ 4 \\ \hline 68 \text{ } 3 \text{ } 5 \end{array}$$

$$\begin{array}{r} 83 \text{ } 3 \text{ } 0 \\ 4 \\ \hline 68 \text{ } 3 \text{ } 5 \end{array}$$

In 45 cwt 3 qrs 21 lb gross tare 8 percent how much neat weight

$$\begin{array}{r} 45 \text{ } 3 \text{ } 21 \\ 8 \\ \hline 42 \text{ } 2 \text{ } 17 \end{array}$$

Case 4

When Trett is allowed with the Tare

Examples

What is the neat weight of 3 tierces of rice each weighing 40 cwt 3 qrs 14 lb gross tare 16 lb per cwt & allowing trett as usual

$$\begin{array}{r} 40 \text{ } 3 \text{ } 14 \\ 3 \\ \hline 120 \text{ } 9 \text{ } 42 \\ 16 \\ \hline 104 \text{ } 0 \text{ } 0 \\ 28 \\ \hline 76 \text{ } 0 \text{ } 0 \end{array}$$

In 25 barrels of figs each 84 lb gross tare 12 lb per cwt trett 4 lb per 104 lb how many pounds

$$\begin{array}{r} 84 \\ 25 \\ \hline 2100 \\ 12 \\ \hline 2520 \\ 4 \\ \hline 10080 \end{array}$$

Interest

Interest is of two kinds Simple and Compound

Simple Interest

Simple Interest is the sum paid by the borrower to the lender for the use of money lent & is generally at a certain rate per cent per annum which in several of the United States is fixed by law at 6 per cent per annum that is 6¢ for the use of 100¢ or 6 dollars for the use of 100 dollars for one year

Principal is the sum lent

Rate is the sum per cent agreed on

Amount is the principal & interest added together

Case 2

To find the simple interest of any sum of money for any number of years & parts of a year

Examples

What will 730 dols amount to at 6 per cent in 5 years 7 months & 12 days

or $\frac{12}{365}$ of a year	730
$365 :: 4380 :: 12$	4380
$365 \overline{) 52560}$	144
$365 \overline{) 1460}$	4
$365 \overline{) 1460}$	4
$365 \overline{) 1460}$	4
$365 \overline{) 1460}$	4
$365 \overline{) 1460}$	4
$365 \overline{) 1460}$	4
$365 \overline{) 1460}$	4
$365 \overline{) 1460}$	4

What is the interest of 1825 at 5 per cent per annum from March 4th 1796 to March 29th 1799 allowing the year to contain 365 days

1825	365 :: 9125 :: 25	1799	3	29
5	25	1796	3	4
9125	45625			3"0"25
3	18250			
27375	228125			
625	2190			
28000	912			
	730			
	1825			
	1825			

Short Practical Rules

For calculating Interest at 6 per cent either for months or months & days

Examples

Required the interest of 945 78.62 for one year five months & a half at 6 per cent per annum

945	78.62
4	13
1	14
18	12
566	50
188	150
47	30
23	110
825	1562
30	
515	
186	
4	
346	

What is the interest of 122.185 for one third of a month at 6 per cent

122.185
2
10
43
129
43
12
5.16

Simple Interest

5 To compute the interest on any note or obligation when there are payments in part or endorsements

Rule

1 Find the amount of the whole principal for the whole time
 2 Cast the interest on the several payments from the time they were paid to the time of settlement & find their amounts & lastly deduct the amounts of the several payments from the amount of the principal

Examples

On the 16th of January 1795 I Lent James Paywell \$500 dollars on interest at 6 per cent which I received back in the following partial payments as under viz

1st of April 1796 ... 50
 16th of July 1797 ... 400
 1st of September 1798 ... 60
 How stands the ballance between us on the 16th November 1800

\$	Cts	
50	00	First payment
13	87	Interest
63	87	Amount
400	00	second payment
80	00	interest
480	00	Amount
60	00	third payment
7	95	Interest
67	95	Amount
63	87	
480	00	several amounts
67	95	
611	82	Amounts
500	00	note
175	00	Interest
675	00	Amount of the note
611	82	amounts of payments
63	18	Ans due to me 63.18

A Promissory Note viz
 £50.10 New London April 4th 1799
 On demand I promised to pay Timothy Careful sixty two pounds ten shillings & interest at 6 per cent per annum till paid value received
 John Standy Peter Paywell
 Richard Testis

Indorsements
 1st Received in part of the above note September 4th 1799 £50.10
 And payment June 4th 1800 £12.10
 How much remains due on said note the fourth day of December 1800

£	s	
50	00	First payment
3	15	Interest
53	15	Amount
12	10	Second payment
7	6	Interest
12	17	Amount
53	15	Several amounts
12	17	
66	12	Amounts
62	10	note
13	15	Interest
75	5	Amount of note
66	12	Amounts of the payments
9	12	Ans

Discount

Rule

As the amount of 100[£] or 100 dollars at the given rate & time is to the interest of 100 at the same rate & time so is the given sum to the discount

Subtract the discount from the given sum & the remainder is the present sum

Or as the amount of 100 is to 100 so is the given sum or debt to the present sum

Examples

What is the discount of 275[£] 10s for 10 months at 6 per cent per annum

$$\begin{array}{r}
 100 \\
 6 \\
 \hline
 600 \\
 2100 \\
 \hline
 300 \\
 150 \\
 50 \\
 \hline
 500
 \end{array}
 \quad
 \begin{array}{r}
 105 : : 5 : : 275 \frac{10}{20} \\
 20 \\
 \hline
 5510 \\
 5 \\
 \hline
 27550 \\
 2100 \\
 \hline
 6550 \\
 6300 \\
 \hline
 250 \\
 20 \\
 \hline
 5000 \\
 4200 \\
 \hline
 800 \\
 12 \\
 \hline
 9600 \\
 8400 \\
 \hline
 1200 \\
 4 \\
 \hline
 4800 \\
 4200 \\
 \hline
 600
 \end{array}$$

What sum of ready money must be received for a bill of 900 dollars due 73 days hence discount at 6 per cent per annum

$$\begin{array}{r}
 100 \\
 6 \\
 \hline
 600 \\
 120 \\
 \hline
 100 \\
 10120
 \end{array}
 \quad
 \begin{array}{r}
 10120 : : 100 : : 900 \\
 10120 \overline{) 900.0000} \\
 80960 \\
 \hline
 90400 \\
 80960 \\
 \hline
 94400 \\
 91080 \\
 \hline
 33200 \\
 30360 \\
 \hline
 28400 \\
 20240 \\
 \hline
 81600 \\
 80960 \\
 \hline
 640
 \end{array}$$

Examples

What is the discount of 756[£] the one half payable in six months & the other half in six months after that at 7 per cent

$$\begin{array}{r}
 100 \\
 7 \\
 \hline
 700 \\
 10350 \\
 \hline
 10350
 \end{array}
 \quad
 \begin{array}{r}
 103 : : 3 : : 756 \\
 2070 \\
 \hline
 7560 \\
 70 \\
 \hline
 2070 \overline{) 529200} \\
 4140 \\
 \hline
 11520 \\
 10350 \\
 \hline
 11700 \\
 10350 \\
 \hline
 1350 \\
 12 \\
 \hline
 16200 \\
 14400 \\
 \hline
 1800 \\
 12 \\
 \hline
 21600 \\
 17280 \\
 \hline
 4320 \\
 4284 \\
 \hline
 36
 \end{array}
 \quad
 \begin{array}{r}
 107 : : 7 : : 378 \\
 107 \overline{) 264624} \\
 214 \\
 \hline
 506 \\
 428 \\
 \hline
 78 \\
 20 \\
 \hline
 15600 \\
 107 \\
 \hline
 490 \\
 428 \\
 \hline
 62 \\
 102 \\
 \hline
 1640 \\
 102 \\
 \hline
 1538
 \end{array}$$

Discount

If a legacy is left me 2000 dollars of which 500 dols are payable in 6 months 500 dols payable in 1 year & the rest at the end of 3 years how much ready money ought I to receive for said legacy allowing 6 per cent discount

[illegible]

Annuities

How much present money is equivalent to an annuity of \$1000 to continue 3 years value being made at 6 per cent.

$$\begin{array}{r} 100 \\ 6 \\ \hline 1.00 \\ 6 \\ \hline 1.12 \\ 6 \\ \hline 1.18 \end{array}$$

$$\begin{array}{r} 106 : : 100 : : 100 \\ 106 \overline{) 10000} \quad 94.33.9'' \\ 954 \\ \hline 460 \\ 424 \\ \hline 360 \\ 318 \\ \hline 420 \\ 318 \\ \hline 1020 \\ 954 \end{array}$$

$$\begin{array}{r} 112 : : 100 : : 100 \\ 112 \overline{) 10000} \quad 89.28.5'' \\ 896 \\ \hline 1040 \\ 1008 \\ \hline 320 \\ 224 \\ \hline 960 \\ 896 \\ \hline 640 \\ 560 \end{array}$$

$$\begin{array}{r} 118 : : 100 : : 100 \\ 118 \overline{) 10000} \quad 84.74.5'' \\ 944 \\ \hline 560 \\ 472 \\ \hline 880 \\ 826 \\ \hline 540 \\ 472 \\ \hline 680 \\ 590 \end{array}$$

$$\begin{array}{r} 94.33.9'' \\ 89.28.5'' \\ 84.74.5'' \\ \hline 268.36.9'' \end{array}$$

What is 80¢ yearly rent to continue 5 years worth in ready money in 1890?

[illegible]

Equation of Payments

Is finding the equated time to pay at once several debts due at different periods of time so that no loss shall be sustained by either

Examples

Suppose \$1000 dollars whereof 200 dollars a merchant has due to him a certain is to be paid present 400 dollars at sums of money to be paid one sixth at 2 months the rest at 15 months but months one third at 3 months & the rest they agree to make one payment of at 6 months what is the equated time for the payment of the whole when that time must be

$$\begin{array}{r}
 200'' \\
 400'' \times 2 \\
 400'' \times 15 = 6000 \\
 \hline
 10000
 \end{array}$$

$$\begin{array}{r}
 15 \times 2 = 30 \\
 30 \times 3 = 90 \\
 45 \times 6 = 270 \\
 \hline
 40 \times 390 = 15600 \\
 30 \times 30 = 900 \\
 \hline
 16500
 \end{array}$$

Barter

Is exchanging of one commodity for another & directs merchants & traders how to make the exchange without loss to either party

Rule

Find the value of the commodity whose quantity is given then find what quantity of the other at the proposed rate can be bought for the same value & it gives the answer

Examples

How much wheat at 1 dol 25 cts a bushel must be given in barter for 50 bushels of rye bartered for 3 1/2 cts of raisins at 3d per lb at 70 cts a bushel

$$\begin{array}{r}
 100 \\
 50 \\
 \hline
 3500
 \end{array}$$

$$\begin{array}{r}
 1 : : 5 : : 3 \times 2 = 6 \\
 28 : : 1 : : 8 \times 3 = 24 \\
 \hline
 14 \\
 28 \\
 \hline
 112 \\
 28 \\
 \hline
 392 \\
 5 \\
 \hline
 121960 \\
 20 \times 1634 \\
 \hline
 8 \times 34
 \end{array}$$

$$\begin{array}{r}
 12 \\
 336 \\
 \hline
 163 \\
 12 \\
 \hline
 1960 \\
 7680 \\
 \hline
 280 \\
 4 \\
 \hline
 1120 \\
 1008 \\
 \hline
 112 \\
 336
 \end{array}$$

Bartiz

How much tea at 4s 9d per lb must be
given in barter for 78 gallons of
brandy at 12s 3 1/2d per gallon

$$\begin{array}{r} 4al \quad 13 \quad 2 \quad 2 \quad 78 \quad 4 \quad 9 \quad 1 \quad 47 \quad 18 \quad 9^2 \\ \hline 12 \\ \hline 147 \\ \hline 4 \\ \hline 590 \\ \hline 78 \end{array}$$

$$\begin{array}{r} 4720 \\ 4130 \\ \hline 446020 \\ 12 \quad 11505 \\ \hline 20 \quad 9589 \\ \hline 47189 \end{array}$$

$$\begin{array}{r} 57 \overline{) 11505} \quad 201 \\ \underline{114} \\ 105 \\ \underline{57} \\ 48 \\ \underline{16} \\ 288 \\ \underline{48} \\ 768 \quad 13 \\ \underline{57} \\ 198 \\ \underline{171} \\ 27 \\ \underline{57} \end{array}$$

A and B bartered it had 8¹/₂ cent of sugar
at 12 cts per lb for which B gave him 1
cent of d flower what was the flower rate
at per lb $\frac{1}{12} :: 12 :: 8 \frac{1}{2}$

$$\begin{array}{r}
 4 \\
 \hline
 33 \\
 28 \\
 \hline
 264 \\
 66 \\
 \hline
 924 \\
 12 \\
 \hline
 11088 \\
 1 \\
 \hline
 1108885 \\
 10080 \\
 \hline
 1008081 \\
 20162
 \end{array}$$

B delivered 3 hhd's of brandy at 65^{ss}
per gallon to b. for 126 yds of cloth what
was the cloth per yd £ 5 250

[illegible]

I give £ 250 yds of druggot at 3cts per
 yd for 319 lb of pepper what does the pepper
 stand him in per lb

$1 :: 30 :: 250$
 $319 :: \overline{7500} :: 1$
 $319 \overline{) 7500} \quad 23^{\prime\prime}5$
 $\quad \underline{638}$
 $\quad \quad 1120$
 $\quad \quad \underline{957}$
 $\quad \quad \quad 1630$
 $\quad \quad \quad \underline{1595}$
 $\quad \quad \quad \quad 35$

A and B bartered A had 41 cwt of rice
at 21s per cwt for which B gave him
20s in money & the rest in sugar
at 8s per lb I demand how much sugar
B gave A besides the 20s

$$\begin{array}{r} 21 \div 4 = 5 \text{ R } 1 \\ 4 \overline{) 861} \\ \underline{80} \\ 61 \\ \underline{60} \\ 1 \end{array}$$

Two farmers bartered & had 120 bushels of wheat at 12 dols per bushel for which B gave him 100 bushels of barley worth 63 cts per bushel & the balance in oats at 40 cts per bushel. The quantity of oats did A receive from B

[illegible]

Barter

A and B barter it hath 145 gallons of brandy at s^d 20 cts per gal ready money but in barter he will have s^d 35 cts per gallon B has linen at 55 cts per yd ready money how must B sell his linen per yard in proportion to A's bartering price & how many yards are equal to A's

$\begin{array}{r} 1 :: 1^{\text{20}} :: 145 \\ 120 \\ \hline 2900 \\ 145 \\ \hline 174^{\text{00}} \end{array}$	$\begin{array}{r} 1 :: 1^{\text{35}} :: 145 \\ 135 \\ \hline 725 \\ 435 \\ \hline 145 \\ \hline 195^{\text{75}} \end{array}$	$\begin{array}{r} 38 :: 1 :: 174^{\text{00}} \\ 38 \overline{) 174^{\text{00}}} \\ 174 \\ \hline 00 \end{array}$	$\begin{array}{r} 300 :: 195^{\text{75}} :: 1 \\ 300 \overline{) 195^{\text{75}}} \\ 1800 \\ \hline 1575 \\ 1500 \\ \hline 750 \\ 600 \\ \hline 1500 \\ 1500 \end{array}$
---	--	--	---

A has 225 yds of shalloon at 2s ready money per yard which he barter with B at 2s 5d per yd taking indigo at 12s 6d per lb which is worth 10s how much indigo will pay for the shalloon & who gets the best bargain

$\begin{array}{r} 1 :: 2 :: 225 \\ 2 \\ \hline 450 \\ 22^{\text{10}} \\ \hline 21^{\text{15}} \\ \hline 0^{\text{15}} \text{ dms} \end{array}$	$\begin{array}{r} 1 :: 2^{\text{3}} :: 225 \\ 12 \\ \hline 29 \\ \hline 2025 \\ 450 \\ \hline 1265^{\text{25}} \\ 20543^{\text{9}} \\ \hline 273^{\text{9}} \end{array}$	$\begin{array}{r} 12^{\text{6}} :: 1 :: 27^{\text{3}}^{\text{9}} \\ 12 \\ \hline 20 \\ \hline 543 \\ 12 \\ \hline 6525 \\ 600 \\ \hline 525 \\ 450 \\ \hline 75751 \\ \hline 1502 \end{array}$	$\begin{array}{r} 1 :: 10 :: 43^{\text{12}} \\ 43^{\text{12}} \\ \hline 35 \\ \hline 40 \\ 20 \\ \hline 435 \\ \hline 21^{\text{15}} \end{array}$
--	--	--	---

Loss And Gain

Is a rule by which merchants & traders discover their profit or loss in buying & selling their goods it also instructs them how to rise or fall in the price of their goods so as to gain or lose so much per cent or otherwise Questions in this rule are answered by the Rule of Three

Examples

Bought 12 cwt of rice at 3 dols 45 cts a cwt & sold it again at 4 cts a pound what was the whole gain.

$\begin{array}{r} 1 :: 4 :: 12^{\text{00}} \\ 4 \\ \hline 50 \\ 28 \\ \hline 400 \\ 100 \\ \hline 1400 \\ 4 \\ \hline 5600^{\text{00}} \\ 43^{\text{1}}2^{\text{5}} \\ \hline 12^{\text{87}}5 \end{array}$	$\begin{array}{r} 1 :: 3^{\text{45}} :: 12^{\text{00}} \\ 4 \\ \hline 50 \\ 28 \\ \hline 400 \\ 100 \\ \hline 1400 \\ 345 \\ \hline 7000 \\ 4200 \\ \hline 483000 \\ 448 \\ \hline 350 \\ 336 \\ \hline 140 \\ 280 \\ \hline 224 \\ 560 \\ \hline 376 \end{array}$
--	--

Loss And Gain

Bought new sugar at 10¢ per lb but could not sell it again for any more than 2¢ 16s percent did I gain or lose by the bargain

$$\begin{array}{r}
 \text{Cost } \$3 \quad \text{Cost } 1 :: 6 :: 2 :: 11 \\
 1 :: 2 :: 16 :: 11 \\
 \hline
 20 \\
 \hline
 5.6 \\
 \hline
 26 \overline{) 616} \\
 \underline{30} \\
 30
 \end{array}$$

$$\begin{array}{r}
 1 :: 6 :: 2 :: 11 \\
 \hline
 4 \\
 \hline
 44 \\
 \hline
 28 \\
 \hline
 352 \\
 \hline
 88 \\
 \hline
 1232 \\
 \hline
 26 \\
 \hline
 7392 \\
 \hline
 2464 \\
 \hline
 4 \overline{) 3203} \\
 \underline{8008} \\
 \hline
 12 \\
 \hline
 6674 \\
 \hline
 3374 \\
 \hline
 36160 \\
 \hline
 2114 \text{ Ans}
 \end{array}$$

Bought a hogshead of molasses containing 119 gallons at 52¢ per gallon paid for carting the same 1 dollar and by accident 9 gallons leaked out at the rate must I sell the remainder per gallon to gain 13 dollars in the whole

$$\begin{array}{r}
 \text{Gals} \quad \text{cts} \quad \text{Gals} \\
 1 :: 52 :: 119 \\
 \hline
 52 \\
 \hline
 238 \\
 \hline
 595 \\
 \hline
 6188 \\
 \hline
 125 \\
 \hline
 6313 \\
 \hline
 13 \\
 \hline
 110 \overline{) 7613} \quad 692
 \end{array}$$

$$\begin{array}{r}
 \text{Gals} \\
 119 \\
 \hline
 9 \\
 \hline
 110
 \end{array}$$

$$\begin{array}{r}
 110 \overline{) 7613} \quad 692 \\
 \underline{6600} \\
 1013 \\
 \underline{990} \\
 230 \\
 \hline
 220
 \end{array}$$

To know what is gained or lost percent

Rule

First see what the gain or loss is by subtraction then as the price or cost is to the gain or loss so is 100 to the gain or loss percent

Examples

Bought sugar at 8¢ per lb sold it again at 4¢ 17s percent what did I gain percent

$$\begin{array}{r}
 3 :: 17 :: 1 :: 100 \\
 \hline
 20 \\
 \hline
 172 \\
 \hline
 924 \\
 \hline
 2400 \\
 \hline
 24000 \\
 \hline
 1848 \\
 \hline
 5520 \\
 \hline
 4620 \\
 \hline
 9020 \\
 \hline
 18000 \\
 \hline
 924 \\
 \hline
 8760 \\
 \hline
 8316 \\
 \hline
 4442 \\
 \hline
 5325 \\
 \hline
 4626 \\
 \hline
 708 \\
 \hline
 4 \\
 \hline
 2832 \\
 \hline
 2772
 \end{array}$$

$$\begin{array}{r}
 3 :: 17 :: 1 :: 100 \\
 \hline
 20 \\
 \hline
 172 \\
 \hline
 924 \\
 \hline
 2400 \\
 \hline
 24000 \\
 \hline
 1848 \\
 \hline
 5520 \\
 \hline
 4620 \\
 \hline
 9020 \\
 \hline
 18000 \\
 \hline
 924 \\
 \hline
 8760 \\
 \hline
 8316 \\
 \hline
 4442 \\
 \hline
 5325 \\
 \hline
 4626 \\
 \hline
 708 \\
 \hline
 4 \\
 \hline
 2832 \\
 \hline
 2772
 \end{array}$$

If I buy 12 hhd of wine for 204 dollars and sell the same again at 14¢ 17s per hhd do I gain or lose and what percent

$$\begin{array}{r}
 1 :: 17 :: 1 :: 100 \\
 \hline
 20 \\
 \hline
 172 \\
 \hline
 924 \\
 \hline
 2400 \\
 \hline
 24000 \\
 \hline
 1848 \\
 \hline
 5520 \\
 \hline
 4620 \\
 \hline
 9020 \\
 \hline
 18000 \\
 \hline
 924 \\
 \hline
 8760 \\
 \hline
 8316 \\
 \hline
 4442 \\
 \hline
 5325 \\
 \hline
 4626 \\
 \hline
 708 \\
 \hline
 4 \\
 \hline
 2832 \\
 \hline
 2772
 \end{array}$$

$$\begin{array}{r}
 17 :: 14 :: 1 :: 100 \\
 \hline
 20 \\
 \hline
 172 \\
 \hline
 924 \\
 \hline
 2400 \\
 \hline
 24000 \\
 \hline
 1848 \\
 \hline
 5520 \\
 \hline
 4620 \\
 \hline
 9020 \\
 \hline
 18000 \\
 \hline
 924 \\
 \hline
 8760 \\
 \hline
 8316 \\
 \hline
 4442 \\
 \hline
 5325 \\
 \hline
 4626 \\
 \hline
 708 \\
 \hline
 4 \\
 \hline
 2832 \\
 \hline
 2772
 \end{array}$$

Loss And Gain

At 12d profit in a shilling how
much per cent. *v. g.* 2

$$\begin{array}{r}
 123 \quad 100 \quad 2 \\
 1 : : 100 : : 100 \\
 \hline
 12 \quad 4 \quad 4 \quad 20 \\
 \hline
 12 \quad 6 \quad 2000 \\
 \hline
 12 \\
 \hline
 24000 \\
 \hline
 6 \\
 \hline
 12 \quad 144000 \\
 \hline
 4 \quad 12000 \\
 \hline
 12 \quad 3000 \\
 \hline
 20 \quad 250 \\
 \hline
 1240
 \end{array}$$

At 25 cts profit in a dollar horse ^{to me}

$100 \div 25 = 4$
 $100 \overline{) 2500} \quad 25 \quad 25$
 $\underline{2500}$
 0
 500
 500

Examples

If I buy cloth at 4 dols 16 cts per yd on eight months credit & sell
 it again at 3 dols 9 cts per yd ready money what do I lose per cent
 allowing 6 per cent discount on the purchase price

				8 Cts
100	104	:: 100	:: 4.16	
			400	3.90
				8 Cts

$$\begin{array}{r} 100 \\ 6 \overline{) 600} \\ \underline{600} \\ 000 \\ 2 \overline{) 300} \\ \underline{200} \\ 100 \\ \underline{100} \\ 000 \\ 100 \\ \underline{100} \\ 00 \end{array}$$

$104 :: 100 :: 416$
 $104 \overline{) 41600} \quad 400$
 $\underline{416}$
 00

base price 4.16
400: 3.90

400 :: 26 :: 3.90

26

2340
780
400 | 10140
800
2140
200

To know how a commodity must be sold to gain or lose so much per cent

Prule

As 100 is to the purchase price so is 100 + or - 100 dols. with the profit added or loss subtracted to the selling price

Examples

If I sent 1 qr 23 lb of sugar cost 12.6 cents
 how much it be sold per lb to gain
 10 percent

	qr	lb			
11	0	23	:	126	50
1	0	0	:	1	0

$$\begin{array}{r} 11 \cdot 11 \cdot 23 :: 126 \cdot 50 :: 1 \\ \hline 45 \quad 1285 \quad | \quad 12650 \quad 9 \cdot 84 \\ \hline 28 \quad | \quad 11565 \\ \hline 385 \quad | \quad 10850 \\ 90 \quad | \quad 10280 \\ \hline 1285 \quad | \quad 5700 \\ 8 \quad | \quad 5040 \\ 100 :: 9 \cdot 84 :: 130 \\ \hline 130 \\ \hline 24520 \\ 954 \\ \hline 127920 \end{array}$$

Bought 90 gallons of wine at 100 20
cts per gallon but by accident 10 gal
leaked out at what rate must I
the remainder per gal to gain upon
the whole prime cost at the rate of

$12\frac{1}{2}$ percent
 $\frac{1}{100} :: \frac{1}{100} 20 :: 40$
 $\frac{80}{10800}$
 $\frac{1350}{1350}$

$$\begin{array}{r}
 100 : 3350 :: 11272 \\
 \hline
 11272 \\
 \hline
 675 \\
 2700 \\
 13350 \\
 \hline
 151075
 \end{array}$$

Loss And Gain

Rule

As 100 £ or 100 dols with the gain per cent added or loss subtracted is to the price so is 100 to the prime cost

Examples

If 40 lb of chocolate be sold at 25 cts per lb & gain 9 per cent what did the whole cost me

$$\begin{array}{r} \$ \\ 109 :: 100 :: 100 \\ \hline 109 \overline{) 100000} \quad 9 \cdot 17 \cdot 4 \\ \underline{981} \\ 190 \\ \underline{109} \\ 810 \\ \underline{763} \\ 470 \\ \underline{436} \\ 34 \end{array}$$

Bought 5 cts of sugar & sold it again at 12 cts per lb by which I gained at the rate of 25 1/2 per cent what did the sugar cost

$$\begin{array}{r} \text{lb} \quad \text{cts} \quad \text{c} \quad \text{100} \quad \text{\$ cts} \quad \text{\$} \\ 1 :: 12 :: 5 \quad \frac{100}{125.50} :: 13.44 :: 100 \\ \hline 4 \\ \underline{20} \\ 28 \\ \underline{160} \\ 40 \\ \underline{560} \\ 12 \\ 5 :: 67.20 :: 1 \\ \hline 5 \overline{) 67.20} \\ \underline{13.44} \end{array}$$

$$\begin{array}{r} 125.50 \overline{) 134400} \quad 1070 \cdot 9 \\ \underline{12550} \\ 89000 \\ \underline{87850} \\ 115000 \\ \underline{112950} \\ 2050 \end{array}$$

Single Fellowship

When the several shares of stock are continued in trade an equal time

Rule

As the whole stock is to the whole gain or loss so is each mans particular stock to his particular share of the gain or loss

Examples

A captain mate & 20 seamen took a prize worth 350 dols of which the captain takes 11 shares the mate 3 shares the remainder of the prize is equally divided among the sailors how did each man receive

$$\begin{array}{r} 11 \quad 36 :: 3501 :: 11 \quad 36 :: 3501 :: 5 \quad 36 :: 3501 :: 20 \\ \hline 36 \overline{) 35011} \quad 1069 \cdot 75144 \quad 4862570020 \quad 19480 \\ \underline{36} \\ 251 \\ \underline{216} \\ 351 \\ \underline{324} \\ 270 \\ \underline{252} \\ 180 \\ \underline{180} \\ 0 \end{array}$$

A & B traded together & gained 100 dols A put in 40 dols B put in 30 much that B must receive 60 dols of the gain & find

$$\begin{array}{r} \$ \\ 40 :: 60 :: 60 \\ \hline 40 \overline{) 38400} \\ \underline{9600} \end{array}$$

Single Fellowship

A B & C traded in company A put in 140 dols B 250 dols & C put in 120 yds of cloth at cash price they gained 230 dols of which C took 100 dols for his share of the gain how did C value his cloth per yd in common stock & what was A & B's part of the gain

$$\begin{array}{r} 140 \\ 250 \\ \hline 390 \end{array}$$

$$\begin{array}{r} 130 : : 390 : : 100 \\ 130 \overline{) 39000} 300 \end{array}$$

$$\begin{array}{r} 120 : : 300 : : 1 \\ 120 \overline{) 30000} 250 \end{array}$$

$$390 : : 130 : : 140$$

$$\begin{array}{r} 5200 \\ 130 \overline{) 5200} 40 \end{array}$$

$$\begin{array}{r} 2600 \\ 2340 \overline{) 2600} 1111 \end{array}$$

$$390 : : 250 : : 100$$

$$\begin{array}{r} 6500 \\ 260 \overline{) 6500} 25 \end{array}$$

$$\begin{array}{r} 1300 \\ 1170 \overline{) 1300} 1111 \end{array}$$

Compound Fellowship

Rule

Multiply each man's stock & share by the time it is was continued. Then divide the sum of the several products by the whole gain or loss. Quotient is each man's particular product. To his particular share of the gain or loss.

Examples

Two merchants enter into partnership for 18 months A at first put in 1000 dollars & at the end of 8 months he put in 200 dols more B at first put in 1000 dollars more B at first put in 800 dollars & at 4 months end took out 200 dols At the expiration of the time they find they have gained 2000 dols what is each man's share of the gain

$$\begin{array}{r} 1000 \times 18 = 18000 \\ 1200 \times 10 = 12000 \\ \hline 30000 \end{array}$$

$$\begin{array}{r} 18000 \\ 12000 \overline{) 30000} 2500 \end{array}$$

$$21600 : : 70000 : : 10000$$

$$\begin{array}{r} 21600 \overline{) 70000000} 324074 \end{array}$$

$$\begin{array}{r} 44800 \\ 52000 \overline{) 44800} 84 \end{array}$$

$$21600 : : 70000 : : 11600$$

$$\begin{array}{r} 21600 \overline{) 70000000} 324074 \end{array}$$

$$\begin{array}{r} 4200000 \\ 70000 \overline{) 4200000} 60 \end{array}$$

$$\begin{array}{r} 56000 \\ 43200 \overline{) 56000} 1296 \end{array}$$

The Double Rule of Three

The Double Rule of Three teaches to find resolve at once such questions as require two or more statings in simple proportion whether direct or inverse. In this rule there are always five terms given to find a sixth the three first terms of which are a supposition the two last a demand.

Examples

An usurer put out 100 £ to receive interest for the same when it had continued 8 months he received principle & interest 108 £ 17 s 4 d Demand at what rate per cent per ann he received

$$\begin{array}{r} 100 \text{ £} : 8 \text{ mon} :: 108 \text{ £ } 17 \text{ s } 4 \text{ d} : x \\ 100 : 12 :: 20 : x \\ 56 : 12 :: 688 : x \end{array}$$

$$\begin{array}{r} 52.56 \\ 12 \overline{) 525600} \\ 20 \overline{) 68800} \\ 688 \overline{) 3440} \end{array} \quad \begin{array}{l} 5 \text{ per cent} \\ 3440 \end{array}$$

If 20 bushels of wheat are sufficient for a family of 8 persons 5 months how much wheat will be sufficient for 4 persons 12 months

$$\begin{array}{r} 20 : 8 :: 5 : x \\ 4 : 12 \end{array}$$

$$\begin{array}{r} 10 \overline{) 960} \\ 24 \end{array}$$

If the carriage of 1000 lbs of goods 20 miles costs 2 dollars 50 cts what must be paid for the carriage of 7 cwt 2 qrs 25 lb 64 miles at the same rate

$$\begin{array}{r} 644 : 150 :: 2.45 : x \\ 865 : 64 \end{array}$$

$$\begin{array}{r} 442.880 \\ 271811 \\ 221444 \\ 110721 \\ 96601 \end{array}$$

Vulgar Fractions

Rule

Divide by any number that will divide two or more of the given numbers without a remainder & set the quotients together with the undivided numbers in the same order.

Examples

What is the least number that 3 5 8 & 12 will measure

$$\begin{array}{r} 3 \ 5 \ 8 \ 12 \\ 2 \ 5 \ 2 \ 3 \\ 15 \ 2 \ 1 \\ 10 \ 1 \ 4 \\ 12 \ 3 \ 2 \end{array}$$

What is the least number that can be divided by the 9 digits separately

$$\begin{array}{r} 2 \ 5 \ 1 \ 3 \ 5 \ 7 \ 9 \\ 2 \ 1 \ 5 \ 3 \ 7 \ 9 \end{array}$$

Addition & Vulgar Fractions

Rule

2. Rule

Reduce compound fractions to single ones mixed numbers to improper fractions & all of them to their least common denominator by Case to Rule 2 then the sum of the numerators written over the common denominator will be the sum of the fractions required.

Examples

Add $12\frac{1}{2}$ $3\frac{2}{3}$ and $4\frac{3}{4}$ together

$$\begin{array}{r}
 25 \\
 2 \\
 \hline
 25 \\
 3 \\
 \hline
 75 \\
 4 \\
 \hline
 310 \\
 114 \\
 88 \\
 \hline
 24 \mid 502 \quad 20 \\
 48 \\
 \hline
 252 \quad 11 \\
 \hline
 412
 \end{array}$$

Add $\frac{1}{3}$ of 4.5 and $\frac{7}{8}$ of $14\frac{1}{2}$ together

$$\begin{array}{r}
 95 \\
 \hline
 3 \\
 \hline
 95 \\
 16 \\
 \hline
 570 \\
 95 \\
 \hline
 1520 \\
 609 \\
 \hline
 48 \overline{) 2129} \quad 44 \\
 \underline{192} \\
 209 \\
 \underline{192} \\
 17 \\
 \underline{17} \\
 48
 \end{array}$$

Add 2nd and 174th together.

$$\begin{array}{r} 2 \\ \hline 5 \\ \hline 2 \\ \hline 2 \end{array} \quad \begin{array}{r} 35 \\ \hline 2-10 \\ \hline 35 \\ \hline 5 \\ \hline 175 \\ \hline 4 \\ \hline 10 \overline{) 179} \\ \underline{10} \\ 79 \\ \hline 70 \\ \hline 9/10 \end{array}$$

Add 25 84 and 12 $\frac{2}{3}$ 10

$$\begin{array}{r}
 25 \quad 33 \quad 10 \\
 \hline
 1 \quad 4 \quad 60 - 240 \\
 \hline
 25 \quad 33 \quad 10 \\
 4 \quad 60 \quad 1 \\
 \hline
 100 \quad 1980 \quad 10 \\
 60 \quad 6000 \quad 4 \\
 \hline
 6000 \quad 40 \quad 40 \\
 \hline
 240 \quad 8020 \quad 33\frac{1}{2} \\
 720 \quad \text{---} \\
 \hline
 820 \quad \text{---} \\
 720 \quad \text{---} \\
 \hline
 20100 \quad 5 \\
 \hline
 240 \quad 12
 \end{array}$$

Hold $\frac{23}{4}$ of a yard $\frac{24}{4}$ of a foot $\frac{25}{4}$ of
a mile together.

$$\begin{array}{r} 2 \\ 3 \\ \hline 6 \end{array} \quad 2 \frac{1}{2}$$

$$\begin{array}{r} 3 \\ 12 \\ \hline 36 \end{array} \quad 9 \text{ Lns}$$

$$\begin{array}{r} 7 \\ 8 \\ \hline 56 \\ 40 \\ \hline 2240 \end{array} \quad 5 \frac{1}{2}$$

$$\begin{array}{r} 1120 \\ 11200 \\ \hline 12320 \\ 1340 \text{ yds} \end{array}$$

Add $\frac{1}{4}$ of a week $\frac{1}{3}$ of a day $\frac{1}{2}$ of an hour $\frac{1}{2}$ of a minute together

$$\begin{array}{r} 1 \\ 7 \\ \hline 4 \overline{) 7} \end{array} \begin{array}{r} 1 \\ 24 \\ \hline 3 \overline{) 24} \end{array} \begin{array}{r} 1 \\ 60 \\ \hline 2 \overline{) 60} \end{array}$$

1 Days 3 hours 30 min
 7 2 18 hours 3 20
 4 2 0
 3 2
 3 2
 2 " 2 " 30 " 20

The Rule of Three Direct
Or Vulgar Fractions.

Rule

Prepare the fractions as before then state your question as per
to the Rules already laid down in the Rule of Three in whole nu-
mbers insert the first term in the proportion then multiply all
three terms continually together the product will be the answer
in the same name with the second or middle term

Examples

the distance north 44 pence
but in the distance north

120	200	63	100	7200
7200			1	5
				120
				66
				20
				1200

A merchant sold 512 pieces of cloth each containing 24 $\frac{1}{2}$ yds at 9s 12 $\frac{1}{2}$ d per yard what did the whole amount^{to}

$\frac{11}{2}$ $\frac{72-80?}{3-6}$

$\frac{108}{4} \quad \frac{4}{3} \quad \frac{4}{3}$

$\frac{217}{2}$ $\frac{803-174252}{6-12}$

$$\begin{array}{r}
 803 \\
 217 \\
 \hline
 5621 \\
 863 \\
 \hline
 1616 \\
 12 \quad 174251 \\
 12 \quad 1452111 \\
 26 \quad 1216 \\
 \hline
 604602\frac{3}{4}
 \end{array}$$

A person having $\frac{3}{5}$ of a vessel sells $\frac{2}{3}$ of his share for 300. What is the whole vessel worth?

$$\frac{1}{2} - \frac{1}{2} = \frac{3}{2} - 1 = 1$$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

If 7/8 of a ship be worth 27 of her cargo
valued at 8000 what is the whole ship
cargo worth.

8	8000	27
7	8000	27

[illegible]

Inverse Proportion

Book.

Prepare the fractions, state the question as before the invert the third term & multiply all the three terms together the product will be the answer.

Examples

If 25¢ will pay for the carriage of an owl 145 $\frac{1}{4}$ miles how far may 6¢ be carried for the same money.

How many yards of base which is 144 ft.
wide will define 1378 yds of cam that $\frac{3}{4}$ yd wide

Miles Cnt Miles Cnt
 145 1/4 1 581 2 = 1162
 4 1 4 13 = 52
581
 4 52 | 1162 22 1/2 Cnts
 Cnt 104
 13 192
 2 104
 218 9
 52 26

$$\begin{array}{r}
 44 \quad 46 \quad 46 \\
 4 \quad 151 \quad 3 \quad 1812 \\
 \hline
 5 \quad 8 \quad 4 \quad 160 \\
 \\
 160 \overline{) 1812} \quad 11 \text{ yds} \\
 \underline{160} \\
 212 \\
 \underline{160} \\
 52 \\
 \underline{4} \\
 208 \quad 1 \text{ qr} \\
 \underline{160} \\
 48 \\
 \underline{4} \\
 192 \quad 1 \frac{1}{5} \text{ m.} \\
 \underline{160} \\
 32 \overline{) 32} \quad 1 \\
 \underline{160} \quad 5
 \end{array}$$

The Rule of Three Set in Decima

Rule

Rule
Reduce your fractions to decimals & state your question as in the numbers multiply the second & third together divide by the first the quotient will be the answer

Examples.

7 Pp 118 1/2 yds cost 25 1/2 what cost 29 1/4 Exam

16 cwt of sugar cost 12 dols 12 cts
what cost 3 kinds each 11 cwt 3 qrs 10 lbs

$$\begin{array}{r}
 173 \cdot 2 : : 25 \cdot 50 : : 29 \cdot 3 \\
 \hline
 4 \qquad 119 \qquad 4 \\
 \hline
 714 \qquad 2 \cdot 24 \cdot 50 \qquad 119 \\
 \hline
 2 \cdot 3 \cdot 50 \\
 \hline
 714 \quad | \quad 2 \cdot 3 \cdot 50 \quad (4 \cdot 25 \\
 \hline
 3 \cdot 0 \cdot 3 \cdot 4 \cdot 5 \cdot 0 \\
 \hline
 2 \cdot 8 \cdot 5 \cdot 6 \\
 \hline
 1 \cdot 7 \cdot 8 \cdot 5 \\
 \hline
 1 \cdot 4 \cdot 2 \cdot 8 \\
 \hline
 3 \cdot 5 \cdot 7 \cdot 0 \\
 \hline
 3 \cdot 5 \cdot 7 \cdot 0
 \end{array}$$

$$\begin{array}{r} 16 : : 12 \cdot 12 : : 11 \cdot 3 \cdot 10, 42 \\ 4 \\ \hline 64 \\ 28 \\ \hline 512 \\ 128 \\ \hline 1742 \end{array}$$

Simple Interest By Decimals

Case 2

Rule

Multiply the ratio by the time add unity to the product for a divisor by which sum divide the amount & the quotient will be the principal

Examples

What principal will amount to 873.19 in 9 years at 6 percent p. ann.

$$\begin{array}{r} 20 \overline{) 19} \\ 6 \times 9 = 54 \\ \underline{873.19} \\ 770 \\ \underline{1039} \\ 934 \\ \underline{1155} \\ 1078 \\ \underline{720} \\ 1340 \\ \underline{134} \\ 0 \end{array}$$

What principal will amount to 956.1054.125 in 8 1/2 years at 5 1/2 percent

$$\begin{array}{r} 875 \\ 55 \\ \underline{4375} \\ 148125 \end{array} \quad \begin{array}{r} 12 \overline{) 4.125} \\ 20 \overline{) 1034375} \\ 9565171875 \\ \underline{888750} \\ 677671 \\ \underline{592500} \\ 851718 \\ \underline{740625} \\ 1110935 \\ \underline{2221935} \\ 148125 \\ \underline{740625} \\ 740625 \end{array}$$

Case 3

Rule Subtract the principal from the ~~ratio~~ amount divide the remainder by the product of the time & principal & the quotient will be the ~~ratio~~ rate

Examples

At what rate percent will 367.10 amount to 873.19 in 9 years

$$\begin{array}{r} 873.19 \\ 367.10 \\ \underline{506.09} \\ 306.09 \\ 20 \\ \underline{6129.00} \\ 6129.00 \end{array} \quad \begin{array}{r} 367.10 \\ 20 \\ \underline{11342} \\ 9 \end{array}$$

At what rate percent will 645.75 amount to 956.1054.125 in 8 1/2 years

$$\begin{array}{r} 12 \overline{) 4.125} \\ 20 \overline{) 1034375} \\ 9565171875 \\ \underline{64575} \\ 3107671875 \\ \underline{282515625} \\ 282515625 \\ \underline{282515625} \\ 0 \end{array}$$

Simple Interest By Decimals

Case 2

Rule Subtract the principal from the amount divide the remainder by the product of the ratio & principal & the quotient will be the time

Examples

In what time will 367¹⁰/₁₀₀ amount to 873¹⁹/₁₀₀ at 6 percent per annum

$$\begin{array}{r} 20 \overline{) 10} \\ 5675 \\ \underline{6} \\ 34050 \end{array}$$

$$\begin{array}{r} 20 \overline{) 19} \\ 873.95 \\ 5675 \\ \underline{306458} \\ 306450 \end{array} \quad 9 \text{ years}$$

In what time will 645¹³/₁₀₀ amount to 936¹⁰/₁₀₀ 4.125 d at 5¹/₂ percent per annum

$$\begin{array}{r} 20 \overline{) 15} \\ 64575 \\ 55 \\ \underline{322875} \\ 322875 \\ \underline{3551625} \end{array}$$

$$\begin{array}{r} 12 \overline{) 4.125} \\ 20 \overline{) 1034375} \\ 95 \overline{) 65171875} \\ 64575 \\ \underline{3107671875} \quad (8.75) \\ 28413000 \\ \underline{26637187} \\ 24861375 \\ \underline{17758125} \\ 17758125 \end{array}$$

Involution

Is the multiplying any number with itself & that product by the former multiply & so on & the several products which arises are called powers. The number denoting the height of the power is called the index or exponent of that powers

Examples

What is the cube of 25.4

$$\begin{array}{r} 254 \\ 254 \\ \underline{1016} \\ 1270 \\ 308 \\ \underline{64516} \\ 254 \\ \underline{258064} \\ 322580 \\ 129032 \\ \underline{16387064} \end{array}$$

What is the square of 7¹/₄

$$\begin{array}{r} 7\frac{1}{4} \\ 7\frac{1}{4} \\ \underline{29} \\ 27 \\ \underline{267} \\ 58 \\ 16 \overline{) 845} \quad 52\frac{1}{4} \\ 80 \\ \underline{45} \\ 41 \\ \underline{32} \\ 9 \\ \underline{16} \end{array}$$

Extraction of the Square Root

Any number multiply'd into itself produces a square
 so extract the square root is only to find a number which being multiply'd
 into itself shall produce the given numbers

Examples

What is the square root of 36372961

$$\begin{array}{r}
 6 \\
 36 \ 37 \ 296 \ 1(6031 \\
 \underline{36} \\
 1203 \quad 3729 \\
 \quad 3609 \\
 \hline
 12061 \quad 12061 \\
 \quad 12061
 \end{array}$$

What is the square root of 9112
693809

$$\begin{array}{r}
 9 \quad 97126938.09 \quad (98.553) \\
 \underline{81} \\
 188 \quad 1612 \\
 \quad \quad 1504 \\
 1965 \quad 10869 \\
 \quad \quad 9825 \\
 19703 \quad 104438 \\
 \quad \quad 98525 \\
 197103 \quad \underline{\hspace{1cm}} \\
 \quad \quad 591309 \\
 \quad \quad 591309
 \end{array}$$

3 To Extract The Square Root of
Vulgar Fractions

Rule. Reduce the fractions to its lowest terms for this I all other
extract the root of the numerator for a new numerator & the root of the
denominator for a new denominator
If the fractions be a surd reduce it to a decimal & extract its root

Examples

What is the square root of 48 Ex. 11

$$\begin{array}{r} 2 \overline{) \begin{array}{cc} 98 & 49 \\ 162 & 81 \end{array}} \end{array}$$

What is the square root of 24876

$$\begin{array}{r} 24816 \\ \underline{16} \\ 1489 \\ \underline{248} \\ 3969 \\ \underline{16} \end{array}$$

$$\begin{array}{r} 6 \mid 3969 \quad 63 \quad 4 \\ \underline{56} \end{array}$$

$$\begin{array}{r} 63 \quad 15\frac{1}{4} \\ \underline{4} \\ 23 \\ \underline{20} \\ 3\frac{1}{4} \end{array}$$

$$\begin{array}{r} 123 \mid 369 \\ \underline{369} \end{array}$$

$$\begin{array}{r} 4 \mid 164 \\ \underline{16} \end{array}$$

Surd

What is the square root of 35

$$\begin{array}{r}
 72 \overline{) 350000} \quad 832339 \quad 8333333342 \quad 9128 \\
 \underline{336} \quad 181 \quad 233 \\
 140 \quad 1823 \quad 181 \\
 \underline{136} \quad 3233 \\
 140 \quad 3644 \\
 \underline{136} \quad 138933 \\
 140 \quad 145984 \\
 \underline{136} \\
 140 \\
 \underline{136}
 \end{array}$$

What is the square root of $36\frac{1}{4}$

$$\begin{array}{r} 36\frac{3}{4} \\ 4 \\ \hline 145 \\ 4 \\ \hline 4 \mid 145 \end{array}$$

Extraction of The Cube Root

A cube is any number multiplying by its square
 To extract the cube root is to find a number which being multiplied into
 its square shall produce the given numbers

Examples

What is the cube root of 162771336

$$\begin{array}{r}
 162771336 \\
 \underline{6000} \quad 6 \quad 5 \quad 1 \quad 0 \quad 8 \quad 5 \quad 3 \quad 4 \quad 4 \\
 1 \quad 2 \quad 5 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \\
 \underline{6000} \quad 5 \quad 2 \quad 6 \quad 0 \quad 8 \quad 5 \quad 3 \quad 4 \quad 4 \\
 4 \quad 8 \quad 0 \quad 0 \quad 0 \\
 4 \quad 6 \quad 0 \quad 8 \quad 5 \\
 \underline{4 \quad 2 \quad 0 \quad 0 \quad 0} \\
 4 \quad 0 \quad 8 \quad 5 \quad 3 \\
 \underline{3 \quad 6 \quad 0 \quad 0 \quad 0} \\
 4 \quad 8 \quad 5 \quad 3 \quad 4 \\
 \underline{4 \quad 8 \quad 0 \quad 0 \quad 0} \\
 5 \quad 3 \quad 4 \quad 4
 \end{array}$$

What is the cube root of 729001101

$$\begin{array}{r}
 729001101 \\
 \underline{8000} \quad 2 \quad 9 \quad 1 \quad 6 \quad 0 \quad 0 \quad 4 \quad 4 \quad 0 \quad 4 \\
 5 \quad 1 \quad 2 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \\
 \underline{8000} \quad 2 \quad 4 \quad 0 \quad 4 \quad 0 \quad 0 \quad 4 \quad 4 \quad 0 \quad 4 \\
 4 \quad 8 \quad 4 \quad 0 \quad 0 \\
 \underline{4 \quad 8 \quad 0 \quad 0 \quad 0} \\
 4 \quad 0 \quad 0 \quad 4 \quad 4 \\
 \underline{3 \quad 8 \quad 4 \quad 0 \quad 0} \\
 1 \quad 6 \quad 4 \quad 4 \quad 0 \\
 \underline{9 \quad 6 \quad 0 \quad 0} \\
 6 \quad 8 \quad 4 \quad 0 \quad 4 \\
 \underline{6 \quad 7 \quad 2 \quad 0 \quad 0}
 \end{array}$$

A General Rule For Extracting the Root Of All Powers

Extract the square cube or 6th root of 12230590464

$$\begin{array}{r}
 1 \mid 12230590464 \quad (110592) \\
 \underline{1} \\
 2 \mid 22 \\
 \underline{2 \quad 1} \\
 2 \mid 205 \\
 \underline{1 \quad 3 \quad 0 \quad 5 \quad 9} \\
 1 \quad 1 \quad 0 \quad 2 \quad 5 \\
 2 \mid 2109 \\
 \underline{2 \quad 0 \quad 3 \quad 4 \quad 0 \quad 4} \\
 1 \quad 9 \quad 8 \quad 9 \quad 8 \quad 1 \\
 2 \mid 21182 \\
 \underline{4 \quad 4 \quad 2 \quad 3 \quad 6 \quad 4} \\
 4 \quad 4 \quad 2 \quad 3 \quad 6 \quad 4
 \end{array}$$

$$\begin{array}{r}
 2 \mid 788 \quad (28) \\
 \underline{4} \\
 4 \mid 388 \\
 \underline{3 \quad 8 \quad 4} \\
 4
 \end{array}$$

$$\begin{array}{r}
 1105 \quad 12 \\
 \underline{4} \\
 4 \mid 442368 \\
 \underline{6 \quad 4 \quad 0 \quad 0 \quad 0} \\
 4 \mid 378368 \\
 \underline{3 \quad 3 \quad 6 \quad 0} \\
 4 \mid 236 \\
 \underline{3 \quad 8 \quad 4} \\
 3 \quad 9 \quad 6 \quad 8 \\
 \underline{3 \quad 8 \quad 4}
 \end{array}$$

Alligation Medial

Is when the quantities & prices of several things are given to find the mean price of the mixture composed of those materials

Rule

As the whole composition is to the whole value so is any part of the composition to its mean price

Examples

(1) Tobaccoist mixed 36 lb of Tobacco at 15 62 per lb with 12 lb at 15 100 per lb what is the price of a pound of this mixture

$$\begin{array}{r}
 36 \times 15 \text{ s } 62 = 648 \\
 12 \times 15 \text{ s } 100 = 288 \\
 \hline
 1200 \text{ s } 1
 \end{array}$$

60 / 1200 = 20 s

A Wine merchant mixed 15 gal of wine at 4 s 22 per gallon with 24 gal at 6 s 8 d & 20 gallons at 6 s 32 what is a gallon of this composition worth

$$\begin{array}{r}
 15 \text{ gal} \times 4 \text{ s } 22 = 750 \\
 24 \text{ gal} \times 6 \text{ s } 8 = 1920 \\
 20 \text{ gal} \times 6 \text{ s } 32 = 1500 \\
 \hline
 59 \text{ gal} \quad 4170 \text{ s } 1
 \end{array}$$

59 / 4170 = 70 s 10 d

A grocer hath several sorts of sugar viz one sort at 8 dols per cent another sort at 9 dols per cent a third sort at 10 dols per cent & a fourth sort at 12 dols per cent He would mix an equal quantity of each together I demand the price of 3 1/2 cent of this mixture

$$\begin{array}{r}
 1 \times 8 = 8 \\
 1 \times 9 = 9 \\
 1 \times 10 = 10 \\
 1 \times 12 = 12 \\
 \hline
 4 \times 39 = 156 \\
 \hline
 413650 \\
 34125
 \end{array}$$

A Goldsmith melted together 5 lb of silver bullion of 8 oz fine 10 lb of 7 oz fine & 13 lb of 6 oz fine pray what is the quantity or fineness of this composition

$$\begin{array}{r}
 5 \text{ lb} \times 8 = 40 \\
 10 \text{ lb} \times 7 = 70 \\
 13 \text{ lb} \times 6 = 90 \\
 \hline
 30 \text{ lb} \quad 200 \text{ oz } 6
 \end{array}$$

30 / 200 = 6 2/3 oz

Alligation Alternate

Is the method of finding what quantity of each of the ingredients whose rates are given will compose a mixture of a given rate so that it is the reverse of alligation medial & may be proved by it

Case 1
When the mean rate of the whole mixture & the rates of all the ingredients are given without any limited quantity

Examples

A grocer would mix the following quantities of sugar viz at 10cts 13cts 16cts per lb what quantity of each sort must be taken to make a mixture worth 12cts per pound

$$12 \overline{) \begin{matrix} 10 \\ 13 \\ 16 \end{matrix}} \begin{matrix} 14-5 \\ 2 \\ 2 \end{matrix}$$

It is required to mix several sorts of rum viz at 5s 7s & 9s per gallon with water per gallon together so that the mixture may be worth 6s per gallon how much of each sort must the mixture consist of

$$6 \overline{) \begin{matrix} 5 \\ 7 \\ 9 \end{matrix}} \begin{matrix} 1 \\ 1 \\ 6 \end{matrix} \quad 6 \overline{) \begin{matrix} 5 \\ 7 \\ 9 \end{matrix}} \begin{matrix} 3 \\ 6 \\ 1 \end{matrix}$$

Alligation Partial

Case 2

Or when one of the ingredients is limited to a certain quantity thence to find the several quantities of the rest in proportion to the quantity given

Examples

A farmer would mix 20 bushels of rye at 65cts per bushel with barley at 51cts & oats at 30cts per bushel how much of each must be mixed with the 20 bushels of rye that the provender may be worth 41cts per bushel

$$41 \overline{) \begin{matrix} 65 \\ 51 \\ 30 \end{matrix}} \begin{matrix} 11 \\ 11 \\ 24-10-34 \end{matrix} \quad 11 : : 20 : : 11$$

$$11 \overline{) \begin{matrix} 220 \\ 20 \end{matrix}} \quad 11 : : 20 : : 34$$

$$11 \overline{) \begin{matrix} 680 \\ 61 \frac{9}{11} \end{matrix}}$$

With 45 gallons of rum at 5s per gallon. I mixed other rum at 6s 8d per gallon & some water then I found it stood me in 65s per gallon I demand how much rum & how much water I took

$$76 \overline{) \begin{matrix} 96 \\ 80 \end{matrix}} \begin{matrix} 76 \\ 76 \end{matrix} \quad 76 : : 95 : : 76$$

$$76 : : 95 : : 24$$

$$76 \overline{) \begin{matrix} 2280 \\ 228 \end{matrix}} \begin{matrix} 30 \end{matrix}$$

Alternation Partial

Cast 3

How much water at 6 per gallon must
be mixed with wine at 60 cts per gal
so as to fill a vessel of 100 gals which
may be afforded at 60 cts per gallon

Brandy at 3²/₆ = 35 p^r gallon
is to be mixed so that a hhd of 63 gal
may be sold for 12\$135 how many
gallons must be taken of each

60 { 30
(90) 60
90

$$\begin{array}{r}
 90 - 100 = 30 \\
 90 \mid \begin{array}{r} 3000 \\ 270 \end{array} \quad 33\frac{1}{3} \\
 \hline
 300 \\
 270 \\
 \hline
 30 \mid 301 \\
 \hline
 90\frac{1}{3}
 \end{array}$$

$90 :: 100 :: 60$
 $90 \overline{) 6000} \begin{array}{l} 66 \\ 540 \end{array} 66\frac{2}{3}$
 $\begin{array}{r} 600 \\ 540 \\ \hline 60 \end{array}$
 $\begin{array}{r} 30 \overline{) 60} \\ 60 \\ \hline 0 \end{array}$
 $\begin{array}{r} 90 \\ 3 \end{array}$

$$48 \overline{) \begin{array}{r} 69 \\ 42 \end{array} } \begin{array}{r} 6 \\ 21 \end{array}$$

$$63 :: 12 \text{ " } 12$$

$$63 \overline{) \begin{array}{r} 252 \\ 252 \end{array} }$$

$27 \div 63 \div 6$
 $27 \overline{) 378} \quad 14$
 $\underline{27} $
 108
 $\underline{108}$
 0

27 :: 63 :: 21

$$\begin{array}{r} 27 \\ \times 136 \\ \hline 108 \\ 243 \\ 270 \\ \hline 3672 \end{array}$$

Arithmetical Progression

Any rank of numbers more than two increasing by common excess or decreasing by common difference is said to be in Arithmetical Progress.

Rule

Multiply the sum of the extremes by the number of terms & half the product will be the answer

Examples

Examples
Suppose 144 oranges were laid 2 yds distant from each other in a right line & a basket placed 200 yds from the first orange what time it would take for a boy to travel over and gather them up singly returning with them one by one to the basket 144

$$\begin{array}{r} 10 \\ \cdot 51. \\ \hline 20 \\ 200 \\ \hline 220 \end{array}$$

[illegible]

$$\begin{array}{r} S \\ 40 \\ \hline \cdot \quad 320 \quad 5\% \\ \hline \quad 160 \\ 1600 \\ \hline 1760 \end{array}$$

Problem 2

Rule Divide the difference of the extremes by the number of terms less 1 and the quotient will be the common difference

Examples

A debt is to be discharged at 16 different payments in arithmetical progression the first payment is to be 14^s the last 100^s. What is the common difference & the sum of the whole debt

$$\begin{array}{r} 100 \\ 14 \\ \hline 15 \overline{) 86} \text{ } 5 \\ \underline{75} \\ 11 \\ \underline{20} \\ 220 \text{ } 14 \\ \underline{15} \\ 70 \\ \underline{10} \\ 120 \text{ } 8 \\ \underline{120} \end{array}$$

$$\begin{array}{r} 100 \\ 14 \\ \hline 114 \\ 16 \\ \hline 684 \\ 114 \\ \hline 2 \overline{) 1824} \\ \underline{912} \end{array}$$

Geometrical Progression

Is when any rank or series of numbers increased by one common multiplier or decreased by one common divisor as 1.2.4.8.16 increase by the multiplier 2 and 7.9.3.1 decrease by the divisor 3

Examples

A rich miser thought 20 guineas a price too much for 12 fine horses he agreed to give 4 cts for the first horse 16 cts for the second & so for the third horse & so on in triple or severfold proportion to the last what did they come to at that rate & how much did they cost per head one with

1	2	3	4	5
4	16	64	256	1024

$$\begin{array}{r} 6144 \\ 5920 \\ \hline 32288 \\ 262144 \\ \hline 1048576 \\ 1573864 \\ \hline 16778216 \\ 67108864 \\ \hline 3 \overline{) 67108864} \\ \underline{22369620} \\ 1864133 \end{array}$$

Geometrical Progression

A thrasher worked 20 days for a farmer & received for the first day
work four barley corns for the second 12 barley corns for the third 36 barley
corns & so on in triple proportion geometrically. I demanded what the 20 day
labor came to supposing a pint of barley to contain 7680 corns & the
whole quantity to be sold at 3s 6d per bushel

	0	^x 1	2	^x 3	^x 4	^x 5	^x 6		
	4	12	36	108	324	972	2916		
							972		
							5832		
						20412			
						26244			
						2834352			
							324		
						11337408			
						5668704			
						8503056			
						918330048			
							108		
						7346640384			
						918330048			
						99179645184			
							12		
						1190155742208			
							3		
2						3570467226624			
						1785233613312			
							4		
7680						1785233613308			
256						23245243			
64						908016			
						14187			
							30		
						12425670			
						20354676			
						177376			

Geometrical Progression

A man bought a horse by agreement was to give a farthing for the first nail two for the second four for the third and so on. There were four shoes & eight nails in each shoe what did the horse come to at that rate

1	2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304	8388608	16777216	33554432	67108864	134217728	268435456	536870912	1073741824	2147483648	4294967296	8589934592	17179869184	34359738368	68719476736	137438953472	274877906944	549755813888	1099511627776	2199023255552	4398046511104	8796093022208	17592186044416	35184372088832	70368744177664	140737488355328	281474976710656	562949953421312	1125899906842624	2251799813685248	4503599627370496	9007199254740992	18014398509481984	36028797018963968	72057594037927936	144115188075855872	288230376151711744	576460752303423488	1152921504606846976	2305843009213693952	4611686018427387904	9223372036854775808	18446744073709551616	36893488147419103232	73786976294838206464	147573952589676412928	295147905179352825856	590295810358705651712	1180591620717411303424	2361183241434822606848	4722366482869645213696	9444732965739290427392	18889465931478580854784	37778931862957161709568	75557863725914323419136	151115727451828646838272	302231454903657293676544	604462909807314587353088	1208925819614629174706176	2417851639229258349412352	4835703278458516698824704	9671406556917033397649408	19342813113834066795298816	38685626227668133590597632	77371252455336267181195264	154742504910672534362390528	309485009821345068724781056	618970019642690137449562112	1237940039285380274899124224	2475880078570760549798248448	4951760157141521099596496896	9903520314283042199192993792	19807040628566084398385987584	39614081257132168796771975168	79228162514264337593543950336	158456325028528675187087900672	316912650057057350374175801344	633825300114114700748351602688	1267650600228229401496703205376	2535301200456458802993406410752	5070602400912917605986812821504	10141204801825835211973625643008	20282409603651670423947251286016	40564819207303340847894502572032	81129638414606681695789005144064	162259276829213363391578010288128	324518553658426726783156020576256	649037107316853453566312041152512	1298074214633706907132624082305024	2596148429267413814265248164610048	5192296858534827628530496329220096	10384593717069655257060992658440192	20769187434139310514121985316880384	41538374868278621028243970633760768	83076749736557242056487941267521536	166153499473114484112975882535043072	332306998946228968225951765070086144	664613997892457936451903530140172288	1329227995784915872903807060280344576	2658455991569831745807614120560689152	5316911983139663491615228241121378304	10633823966279326983230456482242756608	21267647932558653966460912964485513216	42535295865117307932921825928971026432	85070591730234615865843651857942052864	170141183460469231731687303715884105728	340282366920938463463374607431768211456	680564733841876926926749214863536422912	1361129467683753853853498429727072845824	272225893536750770770699685945414569152	544451787073501541541399371890829138304	1088903574147003083082798743781658276608	2177807148294006166165597487563316553216	4355614296588012332331194975126633106432	8711228593176024664662389950253266212864	17422457186352049329324779900506532425728	34844914372704098658649559801013064851456	69689828745408197317299119602026129702912	139379657490816394634598239204052259405824	278759314981632789269196478408104518811648	557518629963265578538392956816209037623296	1115037259926531157076785913632418075246592	2230074519853062314153571827264836150493184	4460149039706124628307143654529672300986368	8920298079412249256614287309059344601972736	17840596158824498513228574618118689203945472	35681192317648997026457149236237378407890944	71362384635297994052914298472474756815781888	142724769270595988105828596944949513631563776	285449538541191976211657193889899027263127552	570899077082383952423314387779798054526255104	1141798154164767904846628775559596109052510208	2283596308329535809693257551119192218105020416	4567192616659071619386515102238384436210040832	9134385233318143238773030204476768872420081664	18268770466636286477546060408953537744840163296	36537540933272572955092120817907075489680326592	73075081866545145910184241635814150979360653184	146150163733090291820368483271628301958721306368	292300327466180583640736966543256603917442612736	584600654932361167281473933086513207834885225472	1169201309864722334562947866173026415669770450944	2338402619729444669125895732346052831339540901888	4676805239458889338251791464692105662679081803776	9353610478917778676503582929384211325358163607552	18707220957835557353007165858768422650716327215104	37414441915671114706014331717536845301432654430208	74828883831342229412028663435073690602865308860416	149657767662684458824057326870147381205730617720832	299315535325368917648114653740294762411461235441664	598631070650737835296229307480589524822922470883328	119726214130147567059245861496117904964584494176672	239452428260295134118491722992235809929168988353344	478904856520590268236983445984471619858337976706688	957809713041180536473966891968943239716675953413376	1915619426082361072947933783937886479433351906826752	3831238852164722145895867567875772958866703813653504	7662477704329444291791735135751545917733407627307008	15324955408658888583583470271503091835466815254614016	30649910817317777167166940543006183670933630509228032	61299821634635554334333881086012367341867261018456064	122599643269271108668667762172024734683734522036912128	245199286538542217337335524344049469367469044073824256	490398573077084434674671048688098938734938088147648512	980797146154168869349342097376197877469876176295297024	1961594292308337738698684194752395754939752352590594048	3923188584616675477397368389504791509879504705181188096	7846377169233350954794736779009583019759009410362376192	15692754338466701909589473558019166039518018820724752384	31385508676933403819178947116038332079036037641449504768	62771017353866807638357894232076664158072075282899009536	125542034707733615276715788464153328316144150565798019072	251084069415467230553431576928306656632288301131596038144	502168138830934461106863153856613313264576602263192076288	1004336277661868922213726307713226626529153204526384152576	2008672555323737844427452615426453253058306409052768305152	4017345110647475688854905230852906506116612818105536610304	8034690221294951377709810461705813012233225636211073220608	16069380442589902755419620923411626024466451272422146401216	32138760885179805510839241846823252048932902544844292802432	64277521770359611021678483693646504097865805089688585604864	128555043540719222043356967387293008195731610179377171209728	257110087081438444086713934774586016391463220358754342419456	514220174162876888173427869549172032782926440717508684838912	1028440348325753776346855739098344065565852881435017369677824	2056880696651507552693711478196688131131705762870034739355648	4113761393303015105387422956393376262263411525740069478711296	8227522786606030210774845912786752524526823051480138957422592	1645504557321206042154969182557350504905364610296027791484584	3291009114642412084309938365114701009810729220592055582969168	6582018229284824168619876730229402019621458441184111165938336	1316403645856964833723975346045880403924291682376222231876672	2632807291713929667447950692091760807848583364752444463753344	5265614583427859334895901384183521615697166729504888927506688	10531229166855718669791802768367043231394333459009777855013376	21062458333711437339583605536734086462788666918019555710026752	42124916667422874679167211073468172925577333836039111420053504	84249833334845749358334422146936345851154667672078222840107008	168499666669691498716668844293872691702309335344156445680214016	336999333339382997433337688587745383404618670688312891360428032	673998666678765994866675377175490766809237341376625782720856064	1347997333357531989733350754350981533618474682753251565441712128	2695994666715063979466701508701963067236949365506503130883424256	5391989333430127958933403017403926134473898731013006261766848512	10783978666860255917866806034807852268947797462026012523533697024	21567957333720511835733612069615704537895594924052025047067394048	43135914667441023671467224139231409075791189848104050094134788096	86271829334882047342934448278462818151582379696208100188269576192	172543658669764094685868896556925636303164759392416200376539152384	345087317339528189371737793113851272606329518784832400753078304768	690174634679056378743475586227702545212659037569664801506156609536	1380349269358112757486951172455405090425318075139329603012313219072	2760698538716225514973902344910810180850636150278659206024626398144	5521397077432451029947804689821620361701272300557318412049252796288	11042794154864902059895609379643240723402544601114636824098505592576	22085588309729804119791218759286481446805089202229273648197011185152	44171176619459608239582437518572962893610178404458547296394022370304	88342353238919216479164875037145925787220356808917094592788044740608	176684706477838432958329750074291851574440713617834189185576089481216	353369412955676865916659500148583703148881427235668378371152178962432	706738825911353731833319000297167406297762854471336756742304357924864	1413477651822707463666638000594334812595525708942673513484608715849728	2826955303645414927333276001188669625191051417885347026969217431699456	5653910607290829854666552002377339250382102835770694053938434863398912	11307821214581659709333104004754678500764205671541388107876869726797824	22615642429163319418666208009509357001528411343082776215753739453595648	45231284858326638837332416019018714003056822686165552431507478907191296	90462569716653277674664832038037428006113645372331104863014957814382592	180925139433306555349329664076074856012227290744662209726029915628765184	361850278866613110698659328152149712024454581489324419452059831257530368	723700557733226221397318656304299424048909162978648838904119662515060736	1447401115466452442794637312605998848097818325957297677808239325030121504	2894802230932904885589274625211997696195636651914595355616478650060243008	5789604461865809771178549250423995392391273303829190711232957300120486016	11579208923731619542357098500847990784782546607658381422465914600240972032	23158417847463239084714197001695981569565093215316762844931829200481944064	46316835694926478169428394003391963139130186430633525689863658400963888128	92633671389852956338856788006783926278260372861267051379727316801927776256	185267342779705912677713576013567852556520745722534102759454633603855552512	370534685559411825355427152027135705113041491445068205518909267207711105024	741069371118823650710854304054271410226082982890136411037818534415422210048	1482138742237647301421708608108542820452165965780272822075637068830844420096	2964277484475294602843417216217085640904331931560545644151274137661688840192	5928554968950589205686834432434171281808663863121091288302548275323377680384	11857109937901178411373668864868342563617327726242182576605096550646755360768	23714219875802356822747337729736685127234655452484365153210193101293510721536	47428439751604713645494675459473370254469310904968730306420386202587021443072	94856879503209427290989350918946740508938621809937460612840772405174042886144	189713759006418854581978701837893481017877243619874921225681544810348085772288	379427518012837709163957403675786962035754487239749842451363089620696171
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Double Position

Teaches to resolve questions by making two suppositions of false numbers

Examples

A laborer was hired for 60 days upon this condition that for every day he worked he should receive 4s for every day he was idle should forfeit 2s At the expiration of the time he received 10s how many days did he work & how many was he idle

Two men A and B lay out equal sums of money in trade & gains 126 and 87 ses 87 £ & A's money is now double to B's what did each lay out

$$\begin{array}{r}
 24 \times 4 = 96 \\
 8 \times 2 = 16 \\
 \hline
 80 \\
 150 \\
 \hline
 70
 \end{array}
 \quad
 \begin{array}{r}
 36 \times 4 = 144 \\
 12 \times 2 = 24 \\
 \hline
 120 \\
 130 \\
 \hline
 30
 \end{array}$$

Diagram showing the solution for the laborer problem using double position. It includes a tree diagram with branches for 24, 36, 70, 30, 40, and 45, leading to the final answer of 45 days work and 15 days idle.

$$\begin{array}{r}
 300 \\
 126 \\
 \hline
 426
 \end{array}
 \quad
 \begin{array}{r}
 300 \\
 87 \\
 \hline
 213
 \end{array}$$

Diagram showing the solution for the two men problem using double position. It includes a tree diagram with branches for 300, 213, 426, 1800, 1200, 127800, 63900, and 634, leading to the final answer of 213 and 300.

A farmer having driven his cattle to market received for them all being paid for every ox 7s for every cow 5s & for every calf 10s there were twice as many cows as oxen & three times as many calves as cows how many were there of each

$$\begin{array}{r}
 8 \times 7 = 56 \\
 16 \times 3 = 80 \\
 48 \times 30 = 72 \\
 \hline
 208 \\
 130 \\
 \hline
 78
 \end{array}
 \quad
 \begin{array}{r}
 12 \times 7 = 84 \\
 24 \times 5 = 120 \\
 72 \times 30 = 108 \\
 \hline
 312 \\
 130 \\
 \hline
 182
 \end{array}$$

Diagram showing the solution for the farmer problem using double position. It includes a tree diagram with branches for 78, 182, 48, 182, 72, 16, 24, 182, 72, 128, 16, 2912, 1872, 104, 104, 3120, 312, and 30 calves, leading to the final answer of 104 oxen, 208 cows, and 312 calves.

Case 3. To find the present worth of Annuities Divided Leases &c taken in Reversions at Compound Interest.

What is the present worth of the 75 £ yearly rent which is not to commence until 10 years hence & then to continue 7 years after that time at 6 per

$$\begin{array}{r}
 10477.260 \\
 7360.087 \\
 \hline
 31171.73 \\
 75 \\
 \hline
 15585865 \\
 21520211 \\
 \hline
 233787975 \\
 20 \\
 \hline
 157595092 \\
 12 \\
 \hline
 9014000
 \end{array}$$

What is the present worth of the reversion of a lease of 60 £ per annum to continue 30 years but not to commence till the end of 5 years allowing 6 per cent to the purchaser

$$\begin{array}{r}
 13406164 \\
 6209794 \\
 \hline
 7196370 \\
 60 \\
 \hline
 431782200
 \end{array}$$

To find the present worth of a Freehold Estate in Reversion at Compound Interest

Suppose an estate of 90 dobs per annum to commence 10 years hence were to be sold allowing the purchaser 6 per cent what is it worth

$$\begin{array}{r}
 6 :: 100 :: 90 \\
 69000 \\
 1500 \\
 \hline
 1500.000000 \\
 662407830 \\
 \hline
 837592170
 \end{array}$$

Which is the most advantageous a term of 15 years in an estate of 100 £ per annum or the reversion of such an estate forever after the said 15 years compound at the rate of 5 per cent per annum compound interest

$$\begin{array}{r}
 5 :: 100 :: 100 \\
 100 \\
 510000 \\
 2000 \\
 \hline
 10379658 \\
 9620342 \\
 \hline
 759316 \\
 20 \\
 \hline
 186320 \\
 12 \\
 \hline
 75840 \\
 4 \\
 \hline
 23360
 \end{array}$$

A Collection of Questions to Exercise the foregoing Rules

The third part of an army was killed the fourth part taken prisoners & so fled how many were in this army how many killed & how many captives

$\begin{array}{r} 24 \\ 8 \\ 6 \\ 1000 \\ 1014 \\ 24 \\ \hline 990 \end{array}$	$\begin{array}{r} 36 \\ 12 \\ 9 \\ 1000 \\ 1021 \\ 36 \\ \hline 985 \end{array}$	$\begin{array}{r} 990 \\ 985 \\ 1014 \\ 985 \\ 5070 \\ 8112 \\ 9126 \\ \hline 998790 \\ 5 \end{array}$	$\begin{array}{r} 985 \\ 990 \\ 1021 \\ 990 \\ 91890 \\ 9189 \\ \hline 1010790 \\ 998790 \\ \hline 12000 \\ 2400 \end{array}$	$\begin{array}{r} 990 \\ 985 \\ 8 \\ 985 \\ 40 \\ 724 \\ \hline 7880 \\ 5 \end{array}$	$\begin{array}{r} 985 \\ 990 \\ 12 \\ 990 \\ 1080 \\ 108 \\ \hline 11880 \\ 7880 \\ \hline 4000 \\ 800 \end{array}$	$\begin{array}{r} 990 \\ 985 \\ 6 \\ 985 \\ 30 \\ 548 \\ \hline 3910 \\ 5 \end{array}$	$\begin{array}{r} 985 \\ 990 \\ 9 \\ 990 \\ 810 \\ 81 \\ \hline 8910 \\ 3910 \\ \hline 3000 \\ 600 \end{array}$
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Thomas sold 150 pine apples at $33\frac{1}{3}$ cts a piece & received as much money as Harry received for a certain number of water melons which he sold at 25 cts a piece how much money did each receive & how many melons had Harry

$\begin{array}{r} 150 \\ 33\frac{1}{3} \\ 50 \\ 450 \\ 450 \\ \hline 5000 \end{array}$	$\begin{array}{r} \text{Cts} \quad \text{Melon} \quad \text{\$/Ct} \\ 25 :: 1 :: 5000 \\ 25 \quad \hline 5000 \end{array}$
--	--

Said John to Dick my purs & money are worth $9\text{ }^s\text{ }2\text{ }^d$ but the money is twenty five times as much the purs & how much money was in it

$\begin{array}{r} \text{\$/s} \\ 9\text{ }^s\text{ }2\text{ }^d \\ 20 \\ 26 \quad \hline 182 \end{array}$	$\begin{array}{r} \text{\$/s} \\ 9\text{ }^s\text{ }2\text{ }^d \\ 7 \\ 8\text{ }^s\text{ }15\text{ }^d \end{array}$
---	--

A young man received 210 $\text{\$}$ which was $\frac{2}{3}$ of his eldest brothers portion now three times the elder brothers portion was half the fathers estate what was the value of the estate

$$\begin{array}{r} 210 \\ 105 \\ 315 \\ 3 \\ 745 \\ 2 \\ \hline 1890 \end{array}$$

A Collection of Questions to Exercise the Foregoing Rules

A hare starts 40 yds before a greyhound & is not perceived by him till she has been up 40 seconds she scuds away at the rate of ten miles an hour the dog on view makes after her at the rate of 18 miles an hour How long will the course hold & what space will be ran over from the spot where the dog started

hour	Miles	Seconds	hour	Miles	Seconds	mile	hour	Yds	ft	Inches
1 :: 60	10 :: 40		1 :: 18	60 5/22		8 :: 1	235 1/8			
60	8		60	8	22	8	60	3		
60	80		60	144	125	64	60	706		
60	40		60	40	120	40	3600	12		
3600	3200	342	3600	5760	1325	2560	512	8480		
	1600		72000	2880		1280		3600		
	16000		79200	28800		12800		5088000		
	17600	40		31680		14080	3	28440		
	704000	1954 1/8		1325		42240	12	3052800	60 5/22	
	3600	40 1/2		138400		506880		3041280		
	34400	235 1/8		63360				115200		
	32400			95040						
	20000			31680						
	18000	79200		41976000						
	2000			396000						
	3			237600						
	6000	1 ft		237600						
	3600									
	2400									
	12									
	28800	8 Inches								
	28800									

There are two numbers whose product is 1610 the greater is given 46 I demand the sum of their squares & the cube of the difference

46	1610	35
138		
230		
230		
46		
46		
276		
184		
2116		
1225		
3341		

35
35
175
105
1225
11
11
121
11
1331

Suppose there is a mast erected so that 1/9 of its length stands in the length ground 12 feet of it in the water 1/3 of its length in the air or above water I demand the whole length

36	72
4	8
12	12
30	60
46	80
36	72
10	8
36	
288	
	720
	720
	288
	216

Questions for Exercise

What difference is there betwixt the int^a of 500 £ at 5 per cent for 12 years & the discount of the same sum at the same rate for the same time

$$\begin{array}{r}
 100 \\
 \underline{3} \\
 500 \\
 \underline{12} \\
 60.00 \\
 1.00 \\
 \hline
 1.60
 \end{array}
 \qquad
 \begin{array}{r}
 500 \\
 \underline{5} \\
 25.00 \\
 \underline{12} \\
 300.00 \\
 187.10 \\
 \hline
 112.90
 \end{array}$$

$$\begin{array}{r}
 160 \overline{) 300.00} \\
 \underline{160} \\
 1400 \\
 \underline{1280} \\
 1200 \\
 \underline{1120} \\
 80 \\
 \underline{20} \\
 1600 \\
 \underline{160} \\
 0
 \end{array}$$

A stationer sold quills at m^d per thousand and by which he cleared 3/8 of his money but growing scarce raised them to 13 s^d per thousand what might he clear percent by the later price

$$\begin{array}{r}
 11 \\
 \underline{3} \\
 8 \overline{) 33} 4.5 \\
 \underline{24} \\
 9
 \end{array}
 \qquad
 \begin{array}{r}
 11.0.0 \\
 \underline{4.1.2} \\
 6.10.2
 \end{array}
 \qquad
 \begin{array}{r}
 13.6.0 \\
 \underline{6.10.2} \\
 6.7.2
 \end{array}$$

$$\begin{array}{r}
 12 \\
 \underline{12} \\
 82 \\
 \underline{4} \\
 330
 \end{array}
 \qquad
 \begin{array}{r}
 12 \\
 \underline{12} \\
 79 \\
 \underline{4} \\
 319
 \end{array}$$

$$\begin{array}{r}
 330 \overline{) 31800} \\
 \underline{2970} \\
 2100 \\
 \underline{1980} \\
 1200 \\
 \underline{2400} \\
 2310 \\
 \underline{90} \\
 10803 \\
 \underline{990} \\
 20903 \\
 \underline{330} 11
 \end{array}$$

Three persons purchase a West India sloop towards the payment of which A advanced 3/8 73 3/4 & £140 B how much paid A & B & what part of the vessel had C

$$\begin{array}{r}
 56 \\
 \underline{21} \\
 24 \\
 140 \\
 \hline
 185 \\
 \underline{56} \\
 129
 \end{array}
 \qquad
 \begin{array}{r}
 112 \\
 \underline{42} \\
 48 \\
 140 \\
 \hline
 236 \\
 \underline{112} \\
 118
 \end{array}$$

$$\begin{array}{r}
 129 \\
 \underline{24} \\
 105 \\
 \underline{192} \\
 24 \\
 \hline
 2832
 \end{array}
 \qquad
 \begin{array}{r}
 118 \\
 \underline{48} \\
 70 \\
 \underline{432} \\
 96 \\
 \hline
 6692 \\
 \underline{2832} \\
 3860
 \end{array}$$

$$\begin{array}{r}
 129 \\
 \underline{140} \\
 118 \\
 \hline
 1120 \\
 \underline{140} \\
 980 \\
 \hline
 16520
 \end{array}
 \qquad
 \begin{array}{r}
 118 \\
 \underline{140} \\
 1260 \\
 \underline{280} \\
 140 \\
 \hline
 18060 \\
 \underline{16520} \\
 1540
 \end{array}$$

$$\begin{array}{r}
 27 \\
 \underline{118} \\
 168 \\
 \underline{21} \\
 21 \\
 \hline
 2478
 \end{array}
 \qquad
 \begin{array}{r}
 42 \\
 \underline{129} \\
 378 \\
 \underline{84} \\
 42 \\
 \hline
 5418 \\
 \underline{2478} \\
 2940
 \end{array}$$

$$\begin{array}{r}
 11 \\
 \underline{2940} \\
 267.30
 \end{array}$$

What is the purchase of 1200 £ bank stock at 103 3/8 per cent

$$\begin{array}{r}
 1200 \\
 \underline{103.375} \\
 3600 \\
 \underline{1200} \\
 12435.00 \\
 \underline{20} \\
 10.00
 \end{array}$$

Questions for Exercise

Bought a certain quantity of broadcloth for 383¹/₅ £ and if the number of shillings which it cost per yard were added to the number of yards bought the sum would be 386 I demand the number of yards bought & at what price per yard?

$$\begin{array}{r} 383\frac{1}{5} \\ 20 \\ \hline 7665 \\ 4 \\ \hline 30660 \end{array}$$

$$\begin{array}{r} 386 \\ 386 \\ \hline 2316 \\ 3088 \\ \hline 1158 \\ 148996 \\ 30660 \\ \hline 3 \overline{) 118336} \\ 9 \\ \hline 283 \\ 256 \\ \hline 64 \overline{) 283} \\ 256 \\ \hline 684 \overline{) 2736} \\ 2736 \end{array}$$

$$\begin{array}{r} 3 \overline{) 148996} \\ 9 \\ \hline 68 \overline{) 589} \\ 544 \\ \hline 766 \overline{) 4596} \\ 4596 \end{array}$$

$$\begin{array}{r} 2 \overline{) 386} \\ 193 \\ \hline 365 \end{array}$$

$$\begin{array}{r} 365 \overline{) 383\frac{1}{5}} \\ 20 \\ \hline 7665 \\ 730 \\ \hline 365 \\ 365 \end{array}$$

$$\begin{array}{r} 193 \\ 172 \\ \hline 365 \text{ Yds} \end{array}$$

Two partners Peter & John bought goods to the amount of 1000 dollars in the purchase of which Peter paid more than John and John paid I know not how much. They then sold their goods for ready money & thereby gained at the rate 200 per cent on the prime cost they divided the gain between them in proportion to the purchase money that each paid in buying the goods & Peter says to John My part of the gain is really a handsome sum of money I wish I had as many such sums as you part contains dollars I could then have \$960000 I demand each man's particular stock in purchasing the goods

$$\begin{array}{r} 960000 \\ 4 \\ \hline 3840000 \end{array}$$

$$\begin{array}{r} 4 \overline{) 160000} \\ 16 \\ \hline 0000 \end{array}$$

$$\begin{array}{r} 1000 \\ 200 \\ \hline 800 \end{array}$$

$$\begin{array}{r} 4000 \div 2000 \div 800 \\ 4000 \overline{) 1600000} \\ 400 \end{array}$$

$$\begin{array}{r} 200 \\ 200 \\ \hline 40000 \\ 3840000 \\ \hline 160000 \end{array}$$

$$\begin{array}{r} 2 \overline{) 40000} \\ 200 \\ \hline 0000 \end{array}$$

$$\begin{array}{r} 1000 \\ 200 \\ \hline 1200 \\ 800 \\ \hline 2000 \end{array}$$

$$\begin{array}{r} 4000 \overline{) 2400000} \\ 600 \end{array}$$

Required to lay out a plot of land in form of a long square containing 3 acres 2 rods and 29 rods that shall have just 100 rods of wall to enclose or fence it round pray how many rods in length how many rods must said Rod be.

$$\begin{array}{r} \text{Acres} \text{ Rods} \text{ Rods} \\ 3 \text{ " } 2 \text{ " } 29 \\ 4 \\ \hline 14 \\ 40 \\ \hline 589 \\ 4 \\ \hline 2356 \end{array}$$

$$\begin{array}{r} 2 \overline{) 100} \\ 50 \\ \hline 500 \\ 2500 \\ 2356 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 1 \overline{) 144} \\ 1 \\ \hline 22 \overline{) 44} \\ 44 \end{array}$$

$$\begin{array}{r} 3 \overline{) 2500} \\ 25 \\ \hline 00 \end{array}$$

$$\begin{array}{r} 25 \\ 6 \\ \hline 31 \end{array}$$

31 Rods in length 4 and 19 in breadth

Of St Helena towards New London
St Helena towards New London

Supplies
Supplies

A Journal of a voyage towards
the Western Isles in the Cutter of
New London on a Whaling Voyage

Towards the East of Spitz

Chronometer State August 11th 1838

29.00 and gained 12 Sec 16 Days

George G. Benjamin

Chronometer State August 16th 1838
29.00 and gained 12 Sec 16 Days

Chronometer

Chronometer State August

Cape of Good Hope

George G. Benjamin

Ship (Cutter)

The Ship Clematis from New London 1837

Wednesday June 14 At 9 AM got under way and stood ~~out~~ through the race down towards Montauk So ~~could~~ thick fog and ~~so ends~~

Thursday June 15th Begins with thick fog and Rainy at two the Pilot left us and we proceeded to sea at 3 PM Montauk point bore west 3 leagues from which ~~we~~ took my departure several sails in sight middle part clear the latter part the same so ends no obs

Friday

June 16 Begins with light breezes from the southward and clear the middle part squally at one PM took in the top gallant sails & single reef the fore and main topsails all hands employed in rigging the Boats at 5 made all sail the wind SW two sails in sight so ends

Saturday June 17 Begins thus with light breezes from the Southward and clear ~~the~~ ^{middle} light winds and cloudy the latter part fresh breezes from the N West Steering by South saw a School of blackfish two Ships in sight so ends

Sunday June 18 Begins with strong winds and cloudy at 3 AM took in the fore Studding sail at 4 PM took in the flying gib and fore Studd the middle part pleasant and latter part pleasant at 6 AM set the fore and Topmast Studding sails so ends

Monday June 19 Fine breezes and clear wether all these 24 saw a Ship steering the same way with a black ball in her fore topsail so ends

Tuesday June 20 Begins with strong breezes and cloudy at 3 PM took in the fore studding sail and flying gib & main topgallant sail at 7 PM took in the fore & main top gallant sails & Double reef the topsails heavy squalls and Rain at 11 AM taken the

Towards the Western Islands Joseph ^{Masser} Baty
Fore and Mizen Toppas called all hands and
furled the main so ends the Wind S S West.

Lat. Lon by Chron 60 49

Wednesday
June 21 Begins strong gales and cloudy at 3 P M set
the foresails at 10 P M set the fore and mizen 10/roats
the latter part pleasant ~~at~~ West so ends 40.19
Lon by Chron 57.30

Thursday
June 22 Begins with strong gales and rainy wether
the latter part light winds an cloudy so ends
the Wind to the Westward steering South East by South
so ends Lat Obs 40.36 Lon by Chron 55.06

Friday
June 23 Begins with light winds an cloudy the wind
from the S West the middle part pleasant and
cloudy the latter part clear the wind
to the Westward Lat by obs 39.59 Lon by Chron 53.31

Saturday
June 24 At 11 these 24 Light breezes and clear
at 10 P M shifted the Tardingsales over on the
Starboard side at 9 saw a School of Grampusses
Westerly winds so ends Lat Obs Lon Obs

Sunday
June 25 Begins with light breezes and clear wether
the middle part clear the latter part fresh
breezes and cloudy saw a school of Grampusses
the Caladona still in sight the wind from the
Westward so ends Lat by P M 39.26 Lon by Chron 49.

Monday
June 26 Begins this day fine breezes from the west the
Caladona in company the middle part strong breezes
the latter part the same so ends

Tuesday
June 27 These twenty four hours begins with light breezes
the middle part strong breezes and took in the fore
& mizen Toppas the latter part the same so ends

Wednesday
June 28 Begins this day with strong ~~at~~ breezes and
squally at 3 P M Cleared up the Fore and Mizen
Toppas the middle pleasant the latter part
the same the wind to the Westward one sail
in sight so ends

" The *Plematia* of New London 1837

Thursday
June 29th Begins this day with fine breezes and clear
the wind to the Westward the middle and the latter
part the same so ends Lat 28. 26 Lon 37. 23

Friday
June 30th Begins this day with fine breezes from the S W
and heavy weather the middle and latter part
the same one Ship steering to the East Lat 39. 22 ^{34. 22}

Saturday
July 1st 1837 Commences this day with strong breezes from the S W
and clear the middle part light the wind
S S West the latter part the same so ends Lat 39. 22

Sunday
July 2nd The first part of the ^{hour} 24 thick fog and
Rainy spoke the Ship Frankland of New Bedford
one Whale two other Ships in sight the wind
S by West at 6 A M made the Isl of Flores
the latter part pleasant so ends

Sunday
July 3rd Commences this day with fine breezes from the
S S and pleasant the middle and latter part
the same so ends

Tuesday
July 4 Begins this day with fine breezes from the S S E
and pleasant the middle and latter part
Squally two Ships on the wind S East Lat 28 52 ^{29. 00}

Wednesday
July 5th Begins this day with squalls and Rain from
the S East the middle part calm and Rainy
the latter part pleasant the wind from the
N West 2 Sails in sight at 11 A M the fore
top mast standing sail so ends

Thursday
July 6th Commences with pleasant breezes and clear
the wind from the S West at 2 P M Fayol bore
at 8 20 miles dist we steered in for the land until
10 P M then double reefed the Topsails and headed
of shore at 2 A M wore ship and food in at 7 the
Capt went on shore so ends at 11 the Letter came
if with the Recruits so ends with pleasant
21 Days to Fayol

Towards the Western Islands

Friday These 24 hours pleasant breezes and clear at 11th
 July shifted the Studding Sails over on the Lubbear and
 the watch employed in Ships duty so ends Lat 34.58
 Lon Ch 27.32

Saturday Begins with light breeze from the S West and pleasant
 July 8th the middle and latter part the same so ends Lon 27.33

Sunday Commences this day with calm weather and clear
 July 9th the middle light breeze the latter part the same
 Lon by Chro 27.16 Lon by Lunar 27.11

Monday The first part of these 24 ^{hours} light winds and pleasant
 July 10th the middle and latter part the same the wind
 from N West 3 sails in sight so ends

Tuesday Commences this day with fine weather and light breeze from
 July 11th the N East middle and latter part the same 3 sails in
 sight Lat 32.32 Lon by Chron 26.13 Lon by Lunar 25.56

Wednesday Begins this day with fine weather and clear the wind
 July 12th from the N East middle and latter part the same
 3 Ships in sight one a Merchant man Ends 31.51 Lon 26.44

Thursday The first part of these 24 ^{hours} begins with squally weather
 July 13 the wind N East 3 Sails in sight the middle part pleasant
 breezes and clear the latter part the same Ends

Friday Commences this day with fresh breezes and clear
 July 14th the wind N East 4 Sails in sight one a Merchant
 man the middle part pleasant breezes and squally
 the latter part pleasant Ends Lat 29

Saturday Begins this ^{day} with pleasant Breezes and clear
 July 15th the wind N East the middle part squally the latter
 part pleasant Ends Lat Lon

Sunday Commences this day with pleasant breeze from the N East
 July 16th the middle and latter part the same as the former
 so ends Lat by Obs 28.39

Monday
July 17th

The Ship Columbus of New London 1837
Commences this day with pleasant breeze from the
E^{ast} and pleasant sun a big School of
Blackfish the middle cloudy the latter part
clear so ends

Tuesday
July 18th

All these twenty four hours light breezes from the
E^{ast} and clear saw a Bird Steering S West
so ends Lat 18.07 Lon by Chron 25° 24'

Wednesday
July 19th

Commences this day with light winds from the N^W & West
and hazy the middle part clear at 5 o'clock made
St Antonio bearing S by east dis 20 miles the latter
part fine breeze and clear so ends 17⁰⁰

Thursday
July 20th

Begins the day with fine breeze from the E^{ast}
and pleasant saw some Blackfish loard and struck
one took him a long side his jaws broke and lost him
so ends Lat Lon

Friday
July 21st

Commences this day with light winds from the E^{ast} & E^{SE}
and pleasant saw a Bird Steering to the southward
made the Ist of Brazil bearing S by West dist 20 miles
End

Saturday
July 22nd

Begins this day with light winds from the E^{ast} & E^{SE}
and clear the middle part fresh breezes and clear
four sails in sight the latter light winds and
cloudy so ends Lat by Obs 12 29

Sunday
July 23rd

The first part of these twenty four hours light winds
from the Eastward and cloudy two Ships Steering
to the Southward the middle the same saw a School
of Blackfish loard and struck one both prons broke
seven sails in sight Ends Lat

Towards the Coast of Chile 1837

Monday
July 24th

Begins this day with fresh breezes from the Eastward and squally at one Week in the Top gallant Sails and kept the Fore and Mizen Topgails the Middle part full and the Latter part the same. Spoke a French Ship bound to the Coast of Chile & sailed in sight so Ends Lat by Obs 11° 12'

Tuesday
July 25

Commences this ^{day} with light breezes and pleasant the Middle and Latter part calm saw Blackfish board and struck one and deamed so Ends Lat 11° 2'

Wednesday
July 26th

These twenty four hours begins with fine breeze from the East and East the Middle and Latter part the fine Sails in sight so Ends Lat 9° 59' Lon by Gu 26° 14'

Thursday
July 27th

Commences this day with fine breeze from the East and clear the Middle part the same the Latter part light winds from the S. East and squally 6 Sails in sight so Ends Lat 8° 10' Lon

Friday
July 28th

Commences this day with fresh breezes from the S West and squally the Middle and Latter part the same 2 Sails in sight so Ends Lat 27° 50'

Saturday
July 29

Begins this day with light breeze and Cloudy the wind S West the Middle clear Latter part squally and plenty of Rain the wind from the North and three Sails in sight Ends by Obs Lat by 27° 30'

Sunday
July 30

Commences this day with fine breeze from the S East and rainy the Middle and Latter part clear 3 Sails in sight Ends Lat 6° 42' Lon 21° 59'

Monday
July 31st

This day begins with light breeze from the S West and clear 2 Sails in sight Middle pleasant Latter squally and Rain

The Ship's Chronicle of New London 1837

Tuesday Commences this day with fine breeze from the
August 1st S.W. and cloudy middle squally the latter
1837 fresh breeze and clear 2 sails in sight Ends Lat 6° 14'
Lon 19° 59'

Wednesday These 24 hours begins with fine breeze and clear
August 2nd the wind South East the middle squally and plenty
of rain the latter part clear saw a Finback
Whale 2 sails in sight Ends Lat by Obs 6° 01' Lon 17° 26'

Thursday All these 24 ^{hours} pleasant breeze from the S.W. and clear
August 3rd Saw two Finbacks two sails in sight Ends Lat 5° 31'
Lon 16° 29'

Friday Commences this day with fine breeze from the S.W. and
August 4th and clear middle squally latter pleasant
So Ends Lat 4° 59' Lon 16° 02'

Saturday All these 24 hours pleasant breeze from S.W. and
August 5th clear 2 sails in sight So Ends Lat 4° 28' Lon 17° 00'

Sunday Commences this day with fine breeze from S.W.
August 6th and pleasant middle pleasant Saw some Blue
fish board and struck one took him along side
and hove him in the latter the same as the
former So Ends Lat by Obs 3° 28' Lon 17° 35'

Monday Begins this day with fine breeze from the S.W. and
August 7th the middle squally latter clear So Ends Lat 2° 38'
Lon

Tuesday Commences this day with fine breeze from the S.W.
August 8th and clear the middle pleasant Saw 3 finback.
[53 Days out] latter part the same Saw two sperm whales
boarded and struck one the iron drawn the preventer
mark got cut off and the whale went off with the preventer
iron in him So Ends Better luck next time I hope
no Obs Lat 2° 00' Lon 20° 30'



Towards the Coast of Chiloe 1837

Wednesday Begins this day with fine breeze from the S S East
August 9 and pleasant the middle and latter part the
same good ends Lat by Observation by Chron

Thursday The first part of these 24^{hours} fine breeze from the
August 10 S S East and pleasant middle and latter part
the same 2 sails in sight ends Lat 30 South
Lon 22⁰⁰

Friday Commenced this day with fine breeze from the
August 11 S East and clear middle and latter part
the same saw some blackfish board and the
four took two along side and hove them in sea
Lat 20⁰⁷ South

Saturday Begins these 24 hours with fine breeze from
August 12 the S East and pleasant middle and latter
part the same ends Lat 3.48

Sunday All these 24 hours fine breeze from S S E East
August 13 and pleasant at 5 A M set fore topmast
standing sail so ends Lat 5.30 Lon Chre

Monday Commenced this day with fresh breeze from
August 14 the S East and squally middle and latter
pleasant ends Lat 7.33

Tuesday Commenced this day with fine breeze from the
August 15 S East and pleasant middle the same as
the former the latter squally the sail
in sight so ends Lat 9.36 Lon

Wednesday Begins these 24 with fresh breeze from the
August 16 S East and squally the middle pleasant
latter the same sent down the main top
galliard and repaired it ends Lat 2.10

The Ship Clements of New London 1837
Thursday Begins these 24 hours with fresh breeze from
August 17th the S East and baffling the Middle Squally
the latter pleasant ends 13.45

Friday Commences this day with strong breeze from
August 18th the S East and clear the Middle and
Rd 6.55 Latter Squally so ends Lat 15°45 Lon 29°2

Saturday Begins this day with fine breeze from the S East
August 19th and pleasant the Middle Squally Latter
pleasant one Sail in sight ends Lat 18.09
Lon 29.11

Sunday These twenty four hours begins with fine
August 20th breeze from S East and pleasant one Sail
in sight the Middle and Latter pleasant
at 5 PM made the Isl of Trinidad West
Dist 7 miles hord 3 Boats pulled in shore
and pulled in shore in company with the
Captain of Sag Harbor Capt Plate so ends
Lon 29.17

Monday The first part of these twenty four hours
August 21th begins with fine breeze from the S East and
pleasant the Middle and Latter part the
Same as the former so ends the day Lat
21.30

Tuesday Commences this day with light winds from
August 22 the S East and pleasant the Middle
and Latter part the Same so ends Lat
22.04
Long 31.13 Ton by Chron 30.54

Wednesday Begins this day with light breeze from the
August 23rd S East and pleasant the Middle and
Latter part the Same so ends Lat

Thursday Commences this day with fine breeze from the
August 24th S East saw 1 Humpback Middle
and Latter part the Same ends Lat 23.5
Long 33.00

Towards the Coast of Chile 1837

Friday

August 25

Begins this day with light winds from the East and clear the Middle fresh breeze the latter the same ends Lat $23^{\circ}19'$ Lon by Chron $35^{\circ}35'$ Long by Lunar $35^{\circ}33'$

Saturday

August 26

Commences this day with fine breeze from the East and pleasant the Middle and latter part the same so ends Lat by Obs $27^{\circ}00'$ Longitude by Chron $37^{\circ}00'$

Sunday

August 27

These twenty four hours begins with fresh breeze from the East and pleasant saw one gony the Middle the same latter carried away the fore topmast steeple under boom so ends Lat $28^{\circ}57'$

Monday

August 28th

95 Days out

Begins this day with strong breeze from the East and thick took in the Main topgallant sail and single reef the Mizzen topgallant and double reef the fore the Middle light squalls with rain the latter plenty of lightning and heavy thunder so ends Lat $30^{\circ}30'$ Lon $40^{\circ}33'$

Tuesday

August 29

The first part of these twenty four hours begins with pleasant breeze from the Westward and clear the Middle calms the latter light breeze and pleasant so ends Lat $32^{\circ}06'$ Long

Wednesday

August 30th

Commences this day with fine breeze and pleasant the wind from the West the Middle light squalls of rain and lightning the latter part the wind fresh and clear one hour standing to the Northward so ends Lat by Obs $33^{\circ}48'$ Lon $42^{\circ}44'$ Long by Chron $42^{\circ}40'$

Thursday

August 31st

Begins this day with strong breeze from the East and clear the Middle light breeze and cloudy the latter the same the wind from the East and a heavy swell from the Southward so ends Lat $34^{\circ}20'$ Lon $46^{\circ}00'$

Friday

September 1837

Commences this day with fine breeze from the North East and cloudy the Middle light squalls of rain double reef the fore topgallant and pole the Mizzen the latter thick fog and heavy the thick and wet ends Lat by Chron $36^{\circ}07'$ Lon $46^{\circ}00'$

The Ship Clement of New London 1837
Friday Sept 1st Begins this day with strong breez from the N & W
the middle and latter part the sun
so ends Lat

Saturday Sept 2nd Commences this with thick fog and raining the
the hawld around to the S West broke the main top
Gallant yard the middle and latter the same
so ends Lat Obs 37° 10' Lon by Chron 47° 17' by Acct 38° 48'

Sunday Sept 3rd The first part of these 24 hours begins with light
breez from S and West and light squally with fog
and latter clear the from the S West so ends

Monday Sept 4th Commences this day with fine breez from the N & W
the middle and latter calm so ends Lat 39° 10'
Lon 47° 9'

Tuesday Sept 5th Begins this day with light breez from the N and West
and clear the middle and latter calm weather
so ends Lat by Obs 39° 28' 47° 22'

Wednesday Sept 6th Commences this day with fine breez from the
N West and pleasant saw one finback the middle
Strong breez from the S West and squally
weather double reef the topsails and furled the
mainsail the latter wore ship and stood to the
Westward so ends Lat Lon

Thursday Sept 7th Begins this day with strong breez from S & West
and pleasant the middle calm the latter
part light breez so ends Lat 39° 38' Lon Chron 48° 20'

Friday Sept 8th These 24 hours begins with strong breez from the
Westward and pleasant the middle took a squall
out of the Eastward attended with light hail and
sharp lightning burst the fore and main top
the latter part pleasant set the topsails
so ends Lat 39° 30' Lon by Chron 48° 34' by Acct 48° 34'

Towards the Coast of Chili 1837

Saturday
September 9th Commenced this day with light breeze from the North and clear the Middle part calm the latter light breeze from the N West So Ends Lat 40 27 Lon

Sunday
Sept 10th Begins this day with light breeze from the North and pleasant one Sail Standing to the S West the Middle light Squalls with rain the latter strong breeze from the Southward clear the Squalls So Ends Lat 40 46 Lon by Chron 50 00 by Account 50 00

Monday
September 11th Commenced this day with strong breeze from the S East and pleasant the Middle and latter part the same at 6 AM wore Ship heading S East So Ends Lat 40 47 Lon by Account 51 44 Lon by Chron 47 46

Tuesday
Sept 12th Begins this day with hard gales from the S West and wore Ship heading to the South Middle part the same latter part the Chronometer stop running give up the Intention of going around the Cape wore Ship and head N East So Ends Lat 41 40 Lon by account 51 24

Wednesday
Sept 13th Commenced this day with fine breeze from the East and pleasant at 6 AM saw a bright whale feeding but did not get hold of him the Middle part pleasant the latter part the same saw one whale but did not get fast So Ends Lat 40 47 Lon 51 44

Thursday
September 14th Begins this day with fine breeze from the North and pleasant saw one whale but did not get fast the Middle pleasant the latter part fine breeze saw two right whales and plenty of Finbacks heard the two whales kill them both took one along side could not get the other slip the Fluke rose and saw a boat stay by him went up to the other and took him along side So Ends the day Lat 40 25 Lon 50 20

Friday
Sept 15th Commenced this day with hard Squalls put the chains on the whale and kept off before we got

Ship Clematis of New London 1837
we got before the wind the chain parted hurt the
mule and one more very bad had to let the ship
come too put the chain on a gain and hove all aboard
and drifted down to the whale run the line to the
ship but blowing so fresh took the line then blowing
so fresh took in all sail and let the whale go com-
cutting the whale parted the chain for Atrop
to rigged to cut let stay all night so Ends Lat 40°30'
Lon 50°2'

Saturday
Sept 16th

Begins this day with fine weather cut the whale in
Started the work the Middle part fine breeze the Lat
part Squally extended with some light showers
so Ends Lat 40°16' Lon by Acra 50°31'

Sunday
Sept 17th

Commenced this day with squally weather employed
in boiling the middle part some rain the latter
part finished boiling Ends Lat obs 39°39' Lon
Acra 50°31'

Monday
Sept 18th
13 Days out

Begins this day with fine breeze from the S. East
and Pleasant finished stowing down the oil and clean
the Bone Middle and Latter part pleasant saw some
fin backs so Ends Lat by Obs 40°10' Lon Acra 50°32' W

Tuesday
Sept 19th

Commenced this day with light breeze from the West the
Middle calm the latter part thunder and lightning
in abundance and Squally set the Topsails double
reeft Ends Lat by Account 39°28' Lon Acra 49°36'

Wednesday
Sept 20th

The first part of these 24 hours begins with hard
gales from the Eastward Middle and Latter part
the same so Ends the day Lat obs 37°06' Lon by Acra 46°20'

Thursday
Sept 21st

Begins this day with hard gales from the S. West
and pleasant the Middle light Squall of rain
and hail the latter part light breeze and pleasant
so Ends Lat obs 33°37' Lon by Acra 43°26' W

Friday
Sept 22nd

Commenced this day with fine breeze from S West and
pleasant with heavy swell the Middle and Latter part
the same the wind from S East saw a number of fin
backs so Ends Lat 23°46' Lon by Acra 41°47' W

A Wright whaling to the 41.57 1837

Saturday
September 23 Begins this day with pleasant breeze from the East and clear
the Middle and Latter part the same so ends the day
Lat 36.42 Lon by Lunar 41.35 by Accu 41.31

Sunday
September 24 Commenced this day with light breeze from the East
and pleasant the Middle the same the Latter part
thick weather and Rainy saw fin backs ends Lat 36.40
Lon by Acc 38.51

Monday
September 25 These twenty four hours begins with fine breeze and clear
weather the wind I Gust the Middle part light squalls
attended with hail and rain the Latter part hard
gales from the East thick rainy weather ends
Lat by Acc 36.10 Lon about 36.48

Tuesday
September 26 Begins this day strong gales from the East
and thick rainy weather split the foremast
the Middle part the same the Latter part
fresh breeze saw two weight whales too rugged
did not fear for them saw some fin backs
so ends Lat 36.48 Lon Dec 38.32

Wednesday
September 27 Commenced this day with light breeze from the
Eastward and pleasant the Middle and Latter
part the same so ends Lat 36.03 Lon 34.47

Thursday
September 28 Begins this day with light breeze from the East
light squalls of rain the Middle part the same
the Latter strong breeze and thick rainy weather
double reef the foresails saw fin backs ends Lat 37.11
Lon by Acc 32.41

Friday
Sept 29 Begins this day with strong breeze from the East
and thick rainy weather the Middle and Latter
hard gales with a heavy swell on canvas away the
fore mast and both masts lost the rig over board
Lat by Acc 36.49 Lon 32.31

Saturday
Sept 30 Commenced this day with strong gales from
the East and plenty of rain the Middle and
Latter part the same Lat the 41st sail is torn
rift ends Lat 36.49 Lon 32.32

Sunday
October 1st These 24 hours begins with strong breeze from the East and light
saw one fin back so ends Lat 35.37 Lon

Ship Clementis of New London 1837

Monday
October 1st

Commenced this day with fresh breeze from the S.W. and light squalls of rain the Middle and Latter part the same saw some finback ends

Lat 35.36 Lon by time 28.07

Tuesday
October 2nd

Begins this day with fine breeze and pleasant weather the wind S.W. the Middle the same the Latter part fine in sight saw several whales

Lat 34.17 Lon 28.07

Wednesday
October 3rd

Commenced this day with fine breeze from the E. and cloudy saw whales leaved but did not get fast the Middle part foggy the Latter part saw one whale leaved struck him killed him took him along side commenced cutting

Ends Lat 34.00 Lon 28.07

Thursday
Oct 4th

Begins this day with strong breeze from E. and cloudy started the hook the Middle part the Latter hard squalls and squally so ends the day Lat 34.00

Friday
Oct 5th

Commences this day with strong breeze from E. and cloudy the Middle part more moderate the Latter part light breeze spoke the gun of Gay Harbour one sperm whale so ends Lat 35.17 Lon 26.32 W.

Saturday
Oct 6th

Begins this day with fine breeze from the S.W. and foggy the gun in company the Middle part fine then boiling the Latter part commenced storm down so ends Lat 35.18 Lon by watch 36.56

Sunday
Oct 7th
115 days out

The first part of the 24 hours begins with fine breeze from the S.W. and foggy spoke the gun of Gay Harbour 141 sperm Middle part foggy the Latter part more pleasant saw one whale leaved but did not get fast Ends Lat 34.38 Lon by 26.3

Monday
Oct 8th

Commenced this day with fine breeze from the S.W. and the Middle part the same Lat 34.12

Cruising for Wright Whales 1837

Tuesday
October 10

Begins this day with hard gales from the S & W
and thick rainy weather the middle part the same
latter part more pleasant made all Tails Fat 33.57
Ton 27.24

Wednesday
October 11

Commence this day with fine breeze from the S & W
and pleasant the middle part squally the latter
part hard gales saw two whales bore did not get
fast To Ends Fat by 60s 34.40 Ton by 27.24

Thursday
October 12

Come this day with hard gales from the S & W
and thick foggy weather middle and latter
part the same To Ends Fat 34.20 Ton

Friday
Oct 13th

Begins this day with hard gales from the
South and East pleasant the middle and latter
part more moderate To Ends Fat 34 Ton 26.10

Saturday
Oct 14

Begins this day with fine breeze from the S & W
pleasant saw some fin & backs middle and latter
pleasant To Ends Fat

Sunday
Oct 15th

Commenced this day with fine breezes from the S & W
and pleasant saw some fin and hump backs
middle and latter part the same as the former
Spoke the gun of Sag Harbor To Ends Fat 35.41
Ton 24.20

Monday
Oct 16th

Commenced this day with fine breezes from the
West and pleasant saw whales bore did not get
fast the middle and latter part strong breezes
set double the top sails spoke the committee
of Sag Harbor one whale to end Fat 35.47
Ton 24.23 1/2

Tuesday
Oct 17th

The first part of these twenty four hours
begins with strong breezes from the S & W and fine
saw one Wright whale bore did not get fast
the middle and latter part more pleasant saw
one whale bore did not get fast To Ends
observation

Ship Clemares 1837

Wednesday
Oct 18th

Begins this day with thick foggy weather Middle part the same latter part hard gales from the NW and thick as usual To ends Lat 35.13 Lon Wack

Thursday
Oct 19th

Comm this day with strong breezes from the NW in thick weather Middle part the same latter part pleasant saw some fin backs To ends Lat 35.32

Friday
Oct 20th

Comm this day with calm weather and haze saw some fin backs Middle part strong breezes latter part rainy Ends Luck as usual

Saturday
Oct 21st

Begins this day with strong breezes from the NE East Middle part rainy the latter part the same On Lat 35.57 Lon 24.57

Sunday
Oct 22nd

Begins this day with hard gales from the NW and pleasant the Middle and latter part the same Lat 35.08 Lon 24.30

Monday
Oct 23rd

Commenced this day with hard gales from the NW and attended with some squalls of rain Middle and latter part pleasant To ends Lat 35.43 Lon by Wack 24.38

Tuesday
Oct 24th

Begins this day with light breezes from the NW and pleasant a heavy rolling swell on Middle and latter part more pleasant Spoke the V. Osce one whale To ends the Day Lat by obs

Wednesday
Oct 24th

Commenced this day with strong breezes from the NW Saw one whale found dead just Middle part strong latter part more pleasant saw one fin back To ends Lat obs 35.15 Lon Watch 23.33

Thursday
Oct 26th

First part of these twenty four hours begins with calm weather sent out the Flying Gull carried away the main Top Gallant yard Middle calm and sail to the west had some thunder and lightning latter part saw one whale supposed it to be brought ashore did not see him afterwards one sail in sight To ends the Day

Friday
Oct 27th

Begins this day with hard gales from the NW in squally and sail in light Middle and latter part the same as the former Lat 35.01 Lon Wack 26.43

Crusing for Wright Whales 1837

Saturday
Oct 28th

Commenced this day with strong breeze from the S. S. E.
The Middle part carried sail to the westward
 Latter part the same as the former Lat 34.20
Long 27.20

Sunday
Oct 29th

Contd this day with hard gales from the S. E.
and squally heading to the Eastward Middle part the
same Latter part squally Sperm Whales one
tail in sight so ends the day Lat 34.20 Long 27.20

Monday
Oct 30th

Begins this day with strong breeze from the S. E. and
pleasant Middle part spoke moderate Latter part
calm saw three whales board did not get fast no tail
in sight ends Lat 33.49 Long 24.54

Tuesday
Oct 31st

First part of these twenty four hours begins with calm
wether two Gales in sight Middle part same as the
former Latter part fresh breeze from the North saw
one whale board but did not get fast found the whale
very shy I ends Lat 34.23

Wednesday
November 1

Begins this day with strong breezes from the North and
cloudy Middle part rising Latter part more pleasant
saw a ship a-boiling ends Lat 34.12 Long 34.27

Thursday
Novem 2nd

Contd this day with fine breeze from the North and
pleasant saw three Sperm whales did not get fast
Spoke the Franklin of New Bedford on sight whale
100 Sperm saw 7 or 8 right whales Middle part cloudy
the Latter part pleasant I ends Lat 34.28 Long 22.40

Friday
Novem 3

Begins these twenty four hours fresh breeze and clear
Middle and Latter part the same 34.28 Long 22.23

Saturday
Novem 4

First part of these twenty four hours begins with fine
breezes from the West and hazy Middle part the
same Latter part squally saw whales board three
three got two the other went off spouting blood on
tail in sight so ends the day Lat 34.41 Long 22.20

Sunday
Nov 5

Begins this day with fine look the whales along side
and commenced cutting at 11 o'clock fine shot cutting and
started the works Middle and Latter part squally
saw three whales on ship in sight Lat 35.05 Long 22.20

Ship Clements 1837

Monday Commenced this day with fine breeze from the north
Nov 6th and squally the middle and latter part the sea
as the former employed in boiling to Ends Lat 33.32

Long 22.26

Tuesday Began this day with squally weather employed in boiling
Nov 7th saw 7 whales in sight saw two whales to end did not get
fett spoke the two Brothers of New Bedford Middle
part pleasant latter part showed down 100 lbs in
5 Gales in sight Ends Lat 34.55 Long track 22.23

Wednesday The first part of these twenty four hours began with fine
Nov 8th breeze from the westward and pleasant Middle part the
further part the latter finished boiling and showed
the oil down the main Hatch saw whales lower chase
but did not get fett came on board and commenced
bone boiling Lat 34.21 Long by Chr 23.05

Thursday Began this day with strong breeze spoke the Amers
Nov 9th of Bristol 40 whales Middle part pleasant the latter
part the same saw several whales did not get fett
to ends

Friday Began this day with fine weather saw whales lower
Nov 10th chase did not get fett spoke the Black Head
of Groton 110 lbs of sperm one weight whale meat
and latter pleasant Ends Lat

Saturday Came this day with fine breeze from the S.E. End
Nov 11th the Blackstone in company saw whales lower
saw one and killed one took along side and
cut him in middle and Lat part pleasant
7 Gales in sight 2 boiling Ends Lat 34.14

Long 22.43

Sunday The first part of this 24 hours began with fine
Nov 12th weather saw whales lower but did not get fett
the whales were they made Lat part hazy saw
two whales lower did not get fett Ends
Lat 34.46 Long 23.27

Monday Began this day with strong breeze saw 6 ships
Nov 13th one a cutter the others a boiling and roasting
the Middle part hazy latter part the same
finished boiling and showing down

Crusing for whales 1837

- Tuesday
Nov 14 The first part this morning four hours began and cloudy 5. Sailed in sight on a boiling spoke the George of New London 3 whales middle part rainy the last part cloudy Spoke the John Elizabeth of New London 14.00 lbs No Ends
- Wednesday
Nov 15 Began this day hazy weather middle and latter part thick fog. S. Ends Lat 33.33 Lon 23.14
- Thursday
Nov 16 Commenced this day thick fog middle the same Lat part pleasant Ends Lat 34.18 Lon 23.45
- Friday
Nov 17 Began this day fine breeze and pleasant weather middle part rainy latter foggy and squally saw whales loosed struck one killed him and took him along side got one boat capsized & ends the day
- Saturday
Nov 18 Commenced this day with thick fog cast the whale in spoke the America of Bristol 6 whales middle part pleasant Lat part the same saw 16 ships spoke the George Foster 2 whales & ends complete in boiling Lat 34.55 Lon by watch 22.31 Lunar 22.33
- Sunday
Nov 19 Began this day with fine weather employed in boiling middle part the same latter part saw 17 ships some some a boiling spoke the Blackstone of Groton 2 whales saw whales loosed found them shy. S. Ends Lat 35.03 P.M. 23.00
- Monday
Nov 20 Commenced this day with fine breeze and pleasant middle and latter part the same saw several whales loosed chase but fouled them very shy saw 14 ships none got whales Lat 35.10
- Tuesday
Nov 21 We have thick rainy weather saw whales loosed chase did not get fast middle and latter part thick rainy weather ends the day Lat 34.37 Lon 22.37
- Wednesday
Nov 22 The first part of this began with strong breeze and clearing a heavy rolling swell in saw whales loosed but did not get fast spoke the Honington of New London 1 whale middle part the same ends Lat 35.59 Lon 22.37

Ship Clement of New London 1831

Thursday
Nov 23 Begins these twenty four hours with strong breeze from the
westward spoke the appearance of 14 whales Middle and Latter
part the latter to the westward Lat 23.16
Lon by Line 23.31 Chron 23.38

Friday
Nov 24 Begins this day with hard gales Saw 150 whales Middle
and Latter part hard gales Lat 23.41 Lon by 23

Saturday
Nov 25 Commenced this day with hard gales from the westward
and pleasant 100 sails in sight Lat 24.57
Lon by Chron 23.14

Sunday
Nov 26 Begins this day with fine breeze and pleasant Saw one whale
loose struck and the sunk and went to hell a hope
Middle and Latter part Squally Lat 25.00

Monday
Nov 27 Begins with a low day with rain to the eastward spoke
the John Climbeth Middle part the same as the former Saw
one whale loose Chatt did not get fast Lat 25.16
Lon 22.28

Tuesday
Nov 28 Begins with a rainy weather spoke the Jason of New York
6 whales Saw 3 whales loose darts but did not get
fast Middle part the same Lat part the same spoke the
Henry of Saghar four whales but did not get fast
Lat 35.01 Lon 22.11

Wednesday
Nov 29 Begins this day with fine breeze from the west and
pleasant Saw 2 whales loose but did not get fast
Middle part more at the Latter part the same Saw one
whale loose struck killed him and the sunk
So ends the day Lat 36.00 Lon Chr 21.03

Thursday
Nov 30 Commenced this day with strong breeze from the west
spoke the Neptune of New London 14 whales Middle
and Latter part Squally Lat 36.00 Lon 21.03

Friday
December 1 The first part of these twenty four hours with night
weather Middle and Latter part the same Saw none
of whales got none Lat 35.43

Saturday
December 2 The heavy thick Squally weather Saw one whale loose
loose but did not get fast Middle and Latter part
thick breeze Saw one whale but did not get fast

Crusing for Whales 1839

Sunday
December 1 Begun this day with hard gales from the S West Middle
Land Latter part the same to end

Monday
Dec 4 Commenced this day with hard gales Middle and Latter
part the same Spoke the wreck employed in
mending sails

Tuesday
Dec 5 Begun this day hard gales Middle and Latter more moderate
Latter part the same Saw a dead whale to back
to cut ends Lat 35.46 Long 21.17

Wednesday
Dec 6 Begun this day strong breeze Saw plenty of Finbacks
got to the South of them Saw plenty of Whales
Struck one cut the line off and pulled it off Saw
other whales loared but did not get past Middle
part thick Latter part the same To ends Lat 35.30
Long 21.34

Thursday
Dec 7 Commenced this day thick hazy weather and rain
gales Middle and Latter part the same

Friday
Dec 8 First part of these twenty four hours begins with fog
Middle and Latter part the same 2 sails in sight

Saturday
Dec 9 We have thick fog Middle more pleasant Saw several
fin backs Latter part Saw one freight whale To end
Lat 36.29 Long 20.33

Sunday
Dec 10 Begun this day with fine breezes from S W and pleasant
Saw several whales loared and struck Also the
iron axel from one held the other along side and
cut her middle part started the rocks Latter part hazy
To ends at 6.5

Monday
Dec 11 Begun this day with foggy weather employed in boiling
Spoke the Margaret of New Port 4 whales 10 minutes
middle foggy Latter part the same Saw 2 whales
To ends Lat 36.37 Long 20

Tuesday
Dec 12 Commenced this day with thick fog employed in boiling
Spoke the Margaret of New Port 4 whales 10 minutes
oil showed down the oil Middle and Latter
part pleasant To ends Lat 36.43 Long 19.42

Ship Clement of New London 1837

Tuesday Dec 14th Begins this day with fine breezes from the West and pleasant. Saw one whale board. Struck, killed and took along side and cut her in. Started the work. Middle and latter part pleasant.

Wednesday Dec 15th Lat 35.31 Long

Begins this day with fine breezes and pleasant weather. Middle and latter part the same. Lat 36.12

Long 22.12

Thursday Dec 16th First part of these twenty four hours thick fog. Middle the same. Lat 36.12

Friday Dec 17th First part no breeze from the East and pleasant. The middle part a heavy misty swell on latter part heavy. So ends this.

Saturday Dec 18th Begins this day with thick rainy weather. Middle and latter part the same. So ends a string of "Gied" around.

Sunday Dec 19th Comm. this day with strong breezes from the East and foggy. Saw two white whales board. Struck and the same. Middle and latter part thick fog, so ends the day. Lat 35.57

Monday Dec 20th Begins this day with thick foggy weather. Middle and latter part the same as the former.

Tuesday Dec 21st First part of these twenty four hours begins with fine breezes and pleasant. Spoke the "Hudson" of New Bedford. Middle and latter part pleasant. Lat 35.45 Long by Lunar 21.09 by watch 19.45

Wednesday Dec 22nd Commenced this day with calm weather, one ship in sight. Middle part fine breezes, latter part the same. Saw plenty of fin backs and saw one calf. Took and took them along side and cut her in. Lat 37.08

Thursday Dec 23rd Begins this day with fine breezes and pleasant. Middle part plenty of fin backs and fine. Middle part strong breezes. Latter part the same. Lat 37.10 Long by Lunar 21.37

Ensign for whales 1 the month 1837

Saturday
Dec 21 The first part of these twenty four hours begins
with fine breezes and incline to fog middle part
the same latter part saw 2 whales heard did not
get fat

Sunday
Dec 22 We have thick foggy weather middle part the same
Saw one whale but did not get fat latter part
spoke the millwood of east Bedford 12 whales
So ends the day Lat 38.12 Long by Sun 2.12

Monday
Dec 23 Begins this day with hard gales saw whales heard did
not get fat Middle part finished boiling latter part
spoke the flower down the oil down the main hatch saw
two whales heard did not get fat So ends Lat 37.45
Long by watch 17.27

Tuesday
Dec 24 Commenced this day with fine breezes from the S.W. and
thick foggy weather middle part the same latter part the
gales saw whales heard but did not get fat
So ends Latitude 37.06 Long 18.47

Wednesday
Dec 25 Begins this day with fine breezes and a heavy rolling swell
on middle and latter part the same Latitude 36.40 Longitude
18.27

Thursday
Dec 26 First part of these twenty four hours begins with fine
breezes from the west S.W. and pleasant saw the whale
stove take a whale saw plenty of fin backs and 2
whales heard did not get fat plenty of food around
middle part hard gales latter part spoke the whaler
of Boston W. Whap. So ends

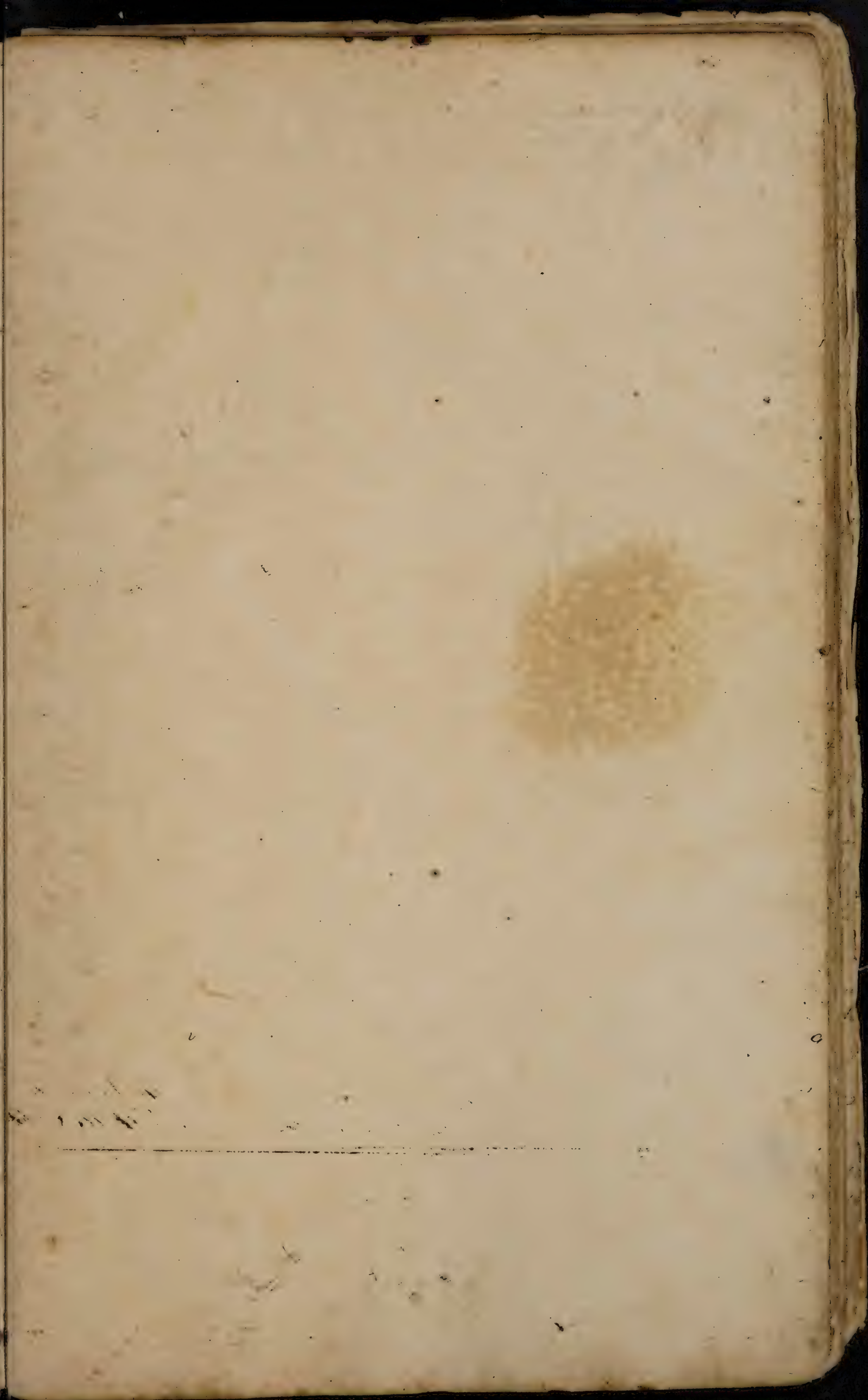
Friday
Dec 27 Begins this day with strong breezes from the west and fine
the middle and latter hard gales So ends Lat 37.14
Long 18.31

Saturday
Dec 28 Begins this day with fine breezes and pleasant saw plenty
of fin backs middle and latter part the same as
former So ends the day Lat 37.23 Long 18.18

Sunday
Dec 29 Commenced this day with fine breeze from the north
and pleasant saw several whales heard did not
get fat middle and latter part the same as former
the whales very shy So ends Lat 36.36 Long 18

1 2 3 Gr / Sp
 3 1 x / x /
 x / Gr /
 Gr /
 x /
 Gr / Gd

Spring G L loc
 Wet day Gf. Gm / x / Sfe P
 Wet day Wt. Gm / 1 Gf's look Gm
 Wet day Gm / x 1 Qm
 Gf. Gm / x 1 Wm
 Wet Gf / x 1 Wm
 Gf. Gm /
 Wet Gf.
 W 1x
 W 1x



When the Sun is
 31° 30' 12" 30
 13° 43'
 15° 46'
 69° 43' 21"

31° 36' 12" 30
 52° 08'
 42° 34' 30" 10
 42° 14' 13° 46'

3/14

69° 43' 21" 1020

49° 76'
 1027
 9 97 23
 15726 11032

18° 11'
 14° 12'
 33° 57'

When the
 apparent Sun
 is above 90
 then it is to
 be subtracted
 when less
 Subtract

When the Sun is to the west of the moon then
 the out one less and the in one greater when the Sun is to the East one greater and one smaller

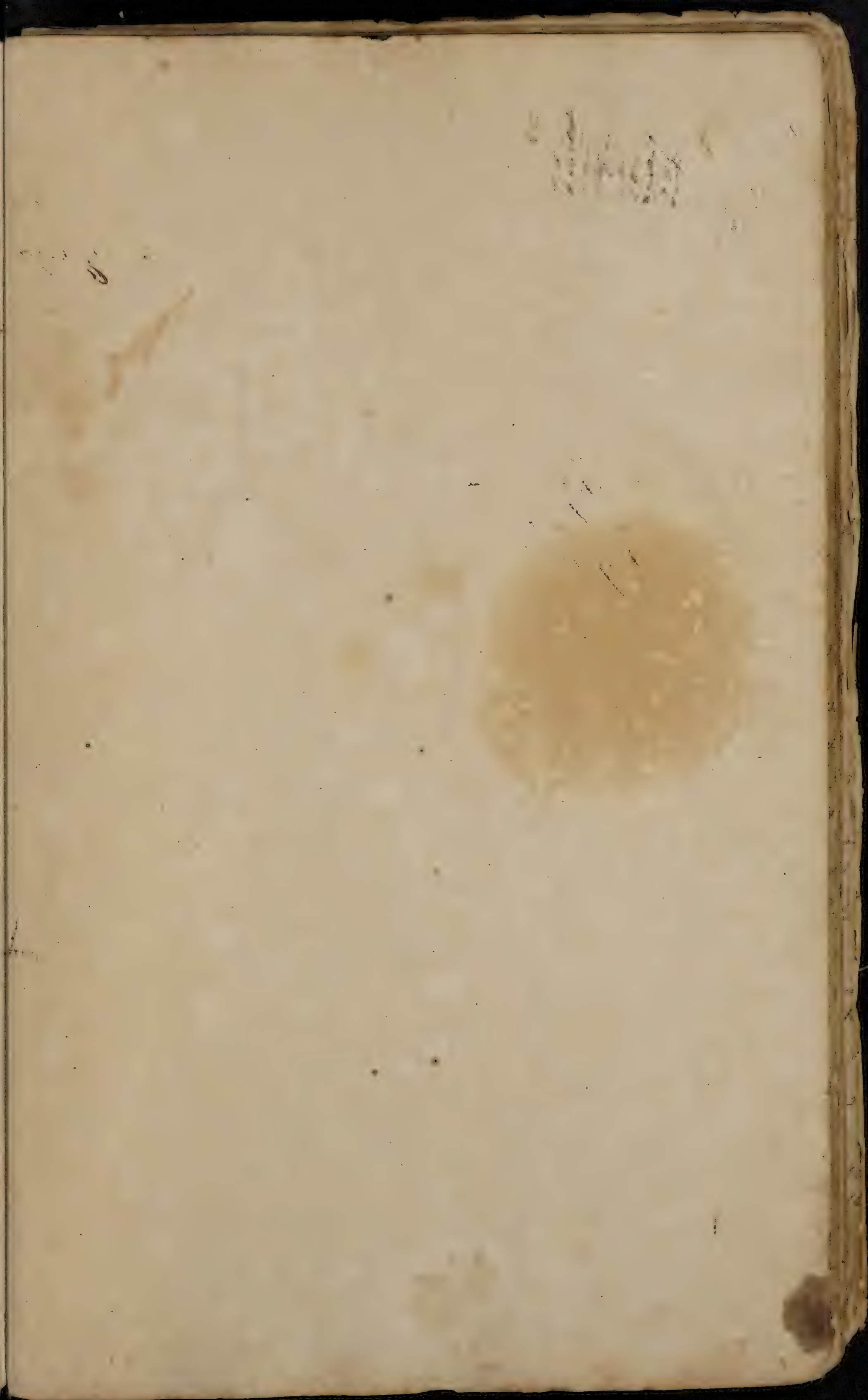
52° 08'
 40° 47'
 67° 08'
 160° 03'
 80° 01'
 52° 08'
 27° 53'

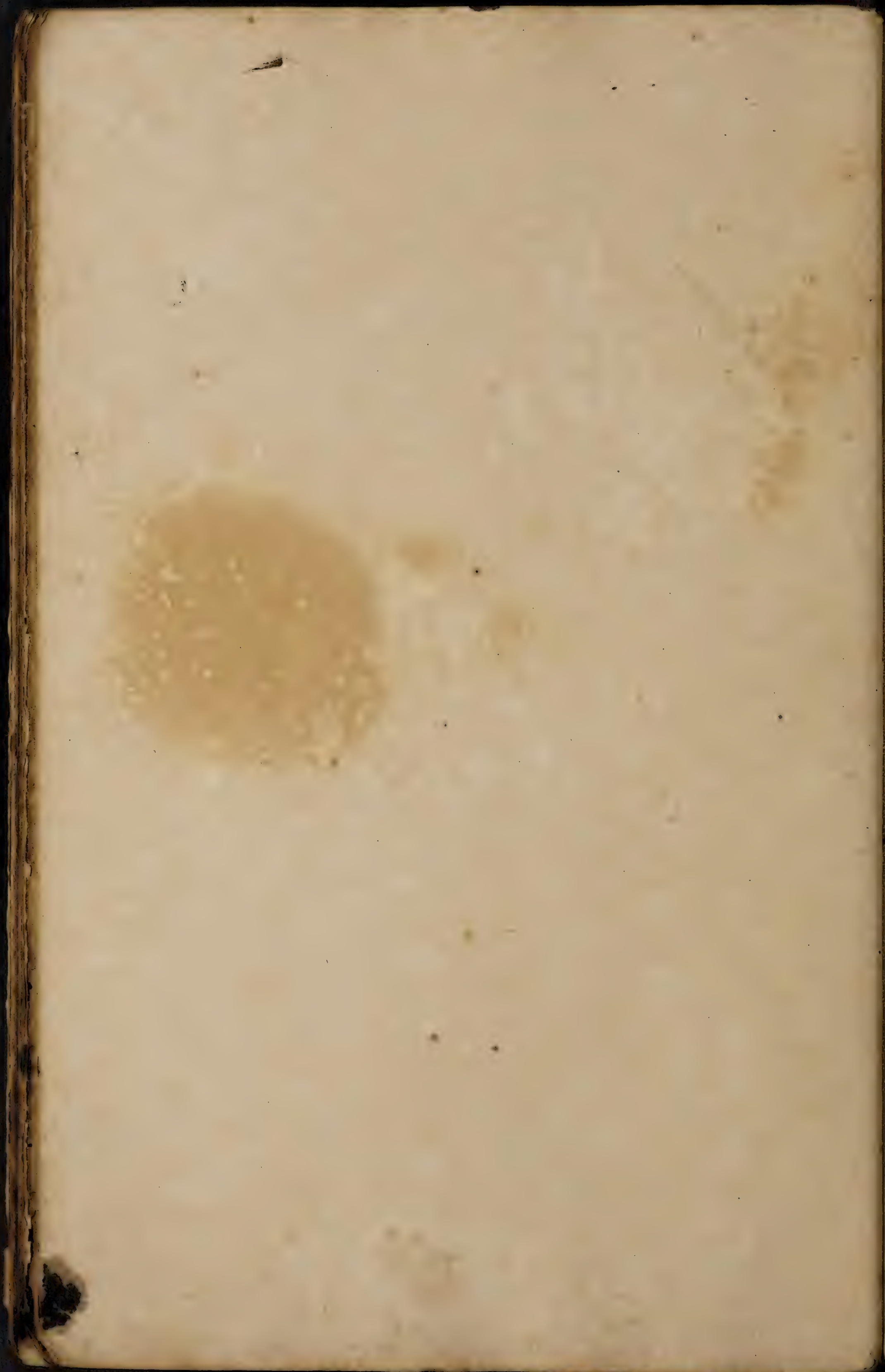
12° 08' 0
 03° 55' 3
 9° 23° 59' 3
 4° 66° 99' 4
 19° 06° 52' 4
 9° 33° 20' 2

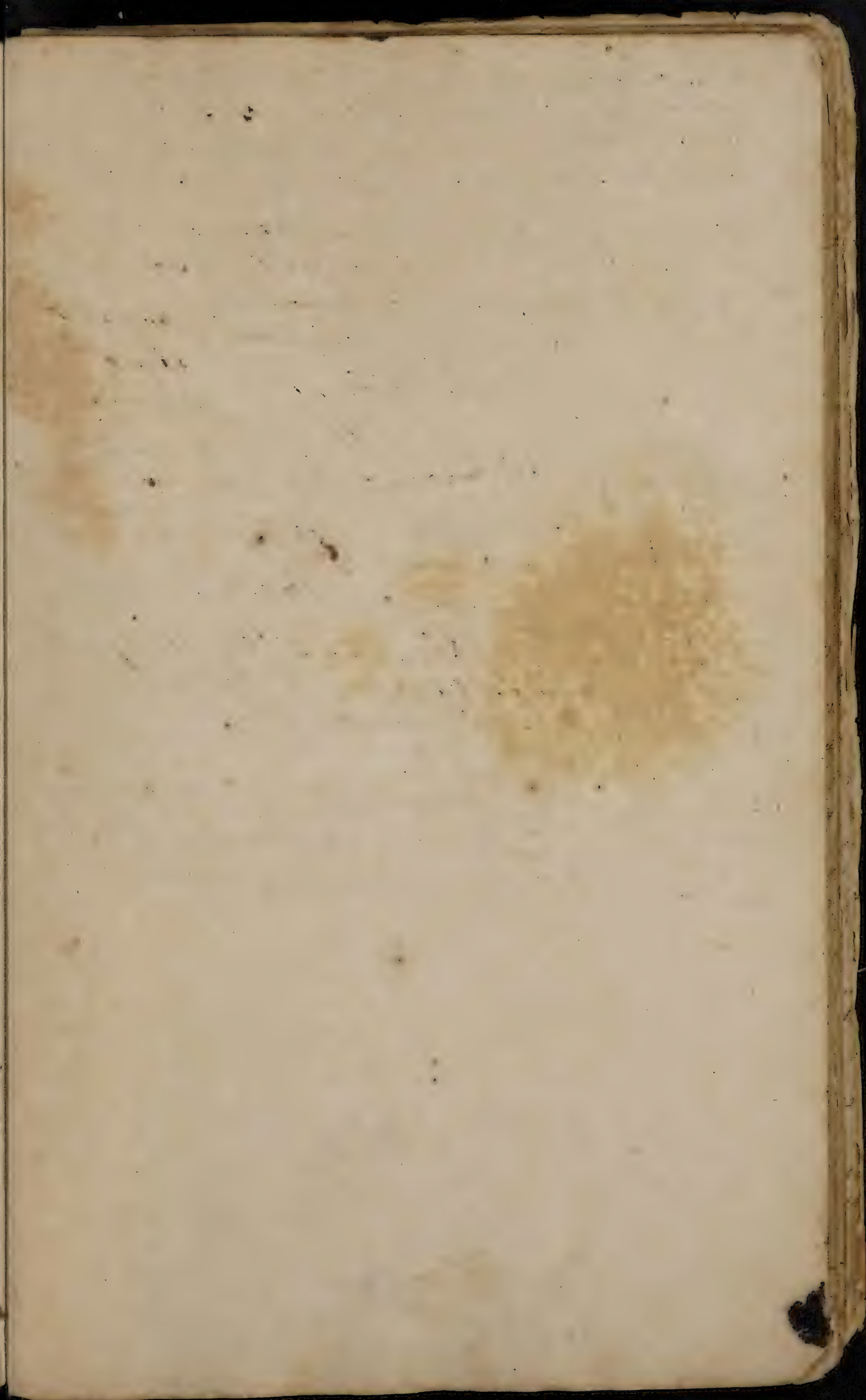
2977
 5874
 2897

When
 7° 32' 23"
 2° 43' 30"
 Length 48° 53'

2° 29' 25"
 1° 02'
 2° 43' 30"







as as Joseph & Son

$$\begin{array}{r} 50 \\ 12 \\ \hline 620 \\ 23 \\ \hline 625 \\ 79 \\ \hline 704 \\ 1318 \\ \hline 286 \\ 25 \end{array}$$

$$\begin{array}{r} 411 \\ 275 \\ 340 \\ \hline 1026 \end{array}$$

$$\begin{array}{r} 218000 \\ 400 \\ 180 \\ 3280 \\ 460 \\ \hline 7880 \end{array}$$

$$\begin{array}{r} 210 \\ 3 \\ \hline 1250 \\ 2500 \end{array}$$

$$\begin{array}{r} 120 \\ 1240 \end{array} \quad 12138$$

$$\begin{array}{r} 300 \\ 1800 \\ 9000 \\ 300 \\ 890 \\ 340 \end{array}$$

Prp

George & W Benjamin
George & W Benjamin
George & W Benjamin

George & W Benjamin
Joseph & Keely North Society

George

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Wash. State Sept 18 1848
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George & W Benjamin
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George & W Benjamin
Chronometer

Geo And 8 2
Jas. Stuart 2
Jas. St. 1.00
Gilbert 1.00

Ship Amazon Fair Haven
Ship Amazon Fair Haven
Foguelanock Foguelanock
Foguelanock

Ship Climatis of New London 1535

Monday

January 1st

Begins this day with fine weather and fine breeze from the N. E. W. Saw whales loosed struck held one took him along side commenced cutting at 10 AM finished cutting started the boats Middle and Latter the same. Saw 1100 whales plenty of fin backs around so Ends
Lat 36.46 Long 19.04

Sunday

January 2

Commenced this day with fine weather and pleasant in being Middle and Latter part the same. Saw the whales loosed did not get fast To Ends Lat 36.40 Lon 18.37

Wednesday

January 3

First part of these twenty four hours begins with fine weather. No Whales in sight Middle part pleasant and part finished boiling. Chopped down the main mast. Backed up and showed a light on the way To Ends

Thursday

Jan 4th

Begins this day with fine breeze from the N. E. W. and foggy Middle and Latter part the same To Ends

Friday

Jan 5th

The first part of these twenty four hours begins with thick hazy weather Middle and Latter part the same To Ends

Saturday

Jan 6

These twenty four hours begins with strong but foggy Middle and Latter part the same To Ends

Sunday

Jan 7

Begins this day with strong breeze from the N. W. Strong South West hazy weather Middle part the same. Latter part more moderate and pleasant saw one whale but did not get fast To Ends
The day. No Obs by account 38.29 Long 18.08

Monday

Jan 8

Commenced this day with fine breeze from the N. E. W. and pleasant Middle and Latter part calm. Saw seven or eight whales loosed did not get fast found the whales going quick to the shell To Ends Lat 37.30 Long 17.44

Wednesday

Jan 9

Begins this day with fine weather Middle part the same Latter part thick fog. Saw twelve whales loosed struck held took along side and cut him. Saw 9 whales and some fine and plenty of fin backs To Ends Lat 37.35 Lon 18.05

Cruising for Whales 1838.

Wednesday Jan 10 First part of these twenty four hours begins with fine weather but the weather in at 6, took a Squall from the west Middle part pleasant Latter part the same saw one ship a-boiling To Ends the day plenty of finbaes

Lat 37.30 Long 18.47

Thursday Jan 11 Begins this with fine weather Middle part the same Latter part saw Blackfish leaved and got 1 too To Ends the boat employed in boiling Lat 37.10 Long 18.33

Friday Jan 12 Begins this day with fine weather employed in boiling Middle part finishes boiling Latter part, Stowed the oil down the after hatch one sail in sight Lat 36.12

Long 18.33

Saturday Jan 13 Commenced this day with fine breezes from the N and pleasant Middle and Latter part the same To Ends

Sunday Jan 14 Begins this day with fine weather and pleasant breezes saw saw a ship a-boiling and a whale along side Middle part hard gales Latter part pleasant and spoke the Rept of New London 12.00 lbs To Ends Lat 36.20 Long 19.27

Monday Jan 15 First part of these twenty four hours begins with fine breezes the Rept in comparison Middle and Latter part the same To Ends Lat 36.19

Long 19.19

Tuesday Jan 16 Begins this day with fine breezes and pleasant Middle part the same Latter part hard gales saw whales leaved but did not get fast

Wednesday Jan 17 Commenced this day with hard gales took in the fore sail and cloth reef the main top sail Middle part the same Latter part more moderate Lat the fore sail sail down at 10 o'clock took up the fore sail To Ends the day Lat 37.10 Long 21.17

Thursday Jan 18 Commenced this day with strong breeze from the N West and pleasant saw several finbaes and some whales in sight in sight in sight in sight saw 2 whales Lat 36.45 Long 21.33

Crusing for Whales 1838

3)
Friday
Jan 19

Begins this day with fine breeze and pleasant weather
4 The ship in sight Middle part the same latter part
Spoke the Cora of New Bedford 6.00 lbs 1. 00
Lat 36.30 Long 21.21

Saturday
Jan 20

First part of the twenty four hours begins with
fine from the N. E. spoke the Channel of
Long Harbour 12.00 lbs Middle and latter the same
as the former. So ends the Day 21.24
Lat 37.00 Long by Chron 21.22

Sunday
Jan 21

Commenced this day with fine breeze and pleasant
Middle and latter part the same as the former

Monday
Jan 22

Begins this day with fine breeze from the N. E. and pleasant
Middle and latter part thick fog so ends

Tuesday
Jan 23

Commenced this day with fine breeze from the N. E. and
thick foggy weather so ends the Day
No Observations

Wednesday
Jan 24

Begins this day with thick fog Middle part the
same latter part more pleasant Spoke the Black
Stone and saw several whales holed struck two
held one and the other went off being all to two
Lat 42.23 Long 19.11

Thursday
Jan 25

Commenced this day with hard gales took the whale
along side and took in sail could not cut it being
too rugged Middle the same as the former latter
part rather more moderate hooked on to the whale and
the fluke rose but the ship came to and put another
and tried to wear again carried away the Stanchion
and choked two lanyards of the fore rigging and
let the ship come to again and repaired damaged
let the whale lay it blowing a gale on

Friday
Jan 26

Begins this with hard gales from the N. E. and
had so cut the whale found it impossible to cut
whale by Middle and latter part the same
as the former So ends several whales in sight
and one ship Lat 42.57 Long 18.23

Happy Clements Cruising for Whales 1838

Saturday
Jan 27th
1838
Begins this day with hard gales from the N.W. and
Squally Middle and Latter part more moderate
Cut in the whale board for two other whales but did
not get fast So Ends Lat 43.09

Sunday
Jan 28
Commenced this day with strong breezes from the N.W.
and pleasant Middle part Squally the Latter part
hard gales attended with rain So Ends Lat 43.20
Long 17.20

Monday
Jan 29
Begins this day with hard gales Middle part the
same Latter part spoke the black stone two whales in
the water saw several whales board once and
not get fast So Ends Lat 43.12 Long 17.13

Tuesday
Jan 30
Begins this with hard gales finished stowing down
the oil and the vessel on board and very smooth
Middle and Latter part the same as the former
So Ends Lat 42.48 Long 16.57

Wednesday
Jan 31
Commenced this day with strong breeze from the N.W.
and as usual split the main top sail and bent
another Middle and Latter part the same as the former
So Ends the day Lat 42.43 Long by Chron 14.19
Lunar 14.00

Thursday
February 1st
1838
Begins this day with strong breeze from the N.W.
and squally run to the Eastward Middle part
look in sail Latter part kept her off to the East
At 11 o'clock one whale did not board it being a heavy
squall So Ends

Friday
Feb 2nd
Commenced this day with a light breeze and a heavy
swell on the waves board truck two took one along
sides and cut his body in it being so rugged that
we could not get his tuba whole nor lips but one other
whale so Middle and Latter part hard gales So
Ends the day no obs

Saturday
Feb 3rd
Begins this day with hard gales carried could be
seen top sails etc. tried to find the other whale
Middle part the same Latter part followed to
take in the fore sail So Ends plenty of hail
Lat 42.26 Long 12.53

Ship Comand Uniting per Whales 1838
Sunday Feb 4 begins this day with hard gales from the NW and
Squally employed in boiling middle part the
the same latter part more moderate and plenty
of rain To Ends Lat 42.55

Monday Feb 5 Commences this day with hard gales look in the
westerly Middle and latter part the same as
the former

Tuesday Feb 6 First part of these twenty four hours begins with hard
gales freshet blowing down the oil Middle more moderate
latter part the same steering to the Eastward

Wednesday Feb 7 Begins this day with thick foggy weather Middle part
pleasant latter part the same To Ends Lat 42.55

Thursday Feb 8 Commences this day with strong breezes from the NW
and cloudy Middle and latter part the same
at 11 AM saw a dead whale got one from out of him
To Ends the day

Friday Feb 9 Begins this day with foggy weather Middle part the
the same latter part saw a dead whale took him
along side and got one from out of him and got two
To Ends mugged

Saturday Feb 10 The first part of these twenty four hours begins with
strong breezes saw one bright whale scored but did not
get fast Middle and latter part strong breeze
Lat 42.03 Long 65.10

Sunday Feb 11 Begins this day with strong breezes (NW) and part
westerly Middle part hard gales latter part saw a
bright whale scored did not get fast To Ends
Lat 42.06 Long 65.10

Monday Feb 12 Commences with thick hazy weather saw one whale
boarded found him going to the westward quick
Middle and latter part pleasant To Ends
Lat 42.01 Long 65.10

Tuesday Feb 13 Begins this day with fine weather Middle part
thick foggy weather latter part the same
To Ends the day Lat 42.12

Ship *Clematis* of *Town of the Cap of Good Hope*
New London 1838
Wednesday Feb 14 First part of these twenty four hours begins with strong breezes and foggy Middle and latter part the same So Ends

Thursday Feb 15 Commenced this day with strong breezes Sea much part rainy latter part pleasant Lat 42 23

Friday Feb 16 Begins this day with light breeze from the East apt hazy Middle part the same latter part the wind turned to the Westward

Saturday Feb 17 Commenced this day with strong breeze from the north and West and pleasant Middle and latter part the same So Ends Lat 39-33

Sunday Feb 18 Begins this day with fine pleasant weather inclined to calm Middle and latter part the same So Ends Lat by Obs 37.17 Lon 10.3 Long Turn

Monday Feb 19 Commenced this day with fine breeze from the East Middle and latter part the same Lat 2 Sailed Steering to the Eastward Ends

Tuesday Feb 20 The first part of these twenty four hours begins with fresh breezes from the East and pleasant at 8 PM took in the foregallant sails the part pleasant latter part the same at daylight made the land which proved to be Table Mountain at the Cap of Good Hope So Ends Lat 34.34 Long 15.02

Wednesday Feb 21 Begins this day with fine breezes then entered Table Bay and beat up to the anchorage in 7 fathoms water at 8 PM the vessel was obliged to ship both chains and go to sea run under green point and at half past eight at daylight stood into the bay at 10 AM got another anchor aboard and hauled toward the ship up to the anchorage came to an anchor So Ends the day

Cruising for Whales 1838

Thursday
Feb 22

Ship Cleared towards the Cape of Good Hope
Commenced this day with hard gales Middle and
Latter part the same on the ship the rounds
stopped this chase

Friday
Feb 23

First part of these twenty four hours began
hard gales till 4 o'clock when at midday the
wind died away Middle and Latter part
pleasant

Saturday
Feb 24

Began this day with fine breeze and pleasant
Middle and Latter part the same the Cook
Ordered to end the day

Sunday
Feb 25

We have hard gales from the East the vessel
could not get off it blew a hurricane so ends

Monday
Feb 26

Began this day with fine weather and clear
the breeze and warmed the coast so ends

Tuesday
Feb 27

All of these twenty four hours light air and
pleasant all hands employed in ship's duty

Wednesday
Feb 28

Commenced this day with hard gales all hands
on board the ship so ends

Thursday
March 1

Began this day with light winds from the
SW and pleasant the table land covered
with a cloud but did not blow at 9 got under
way and stood out of the bay

Friday

March 2nd

Commenced this day with sun on the North of Hobbs
Is at 10 AM the wind died away Middle and
Latter the same so ends

Saturday
March 3

Began with fine breeze from the North and pleasant
two ships in sight the Middle and Latter part
the same as the former so ends Feb 33.3

Sunday
March 4

First part of these twenty four hours began with
fine breeze from the East and pleasant Middle
and Latter the same so ends the Day

Ship Clements Towards St Madagascar

Monday
March 5 Begins this day with the thick foggy weather Middle
and latter part gale from the S to S. E. Ends
the ship in sight So Ends Lat 37° 6 South

Tuesday
March 6 Comes this day with hard gale from the west and
hazy Middle and latter part more moderate
Set the top gallant sails Ends Lat 37° 11
Long 24° 44

Wednesday
March 7 First part of these twenty four hours begins with
fine breeze from the S W and pleasant the Middle
and latter part the same So Ends Lat 36° 27
Long 28° 16 East

Thursday
March 8 We have fine breeze and pleasant the Middle
and latter part the same Ends

Wednesday
March 9 Begins this day with fine breeze from the east
Middle and latter part the same So Ends
the day Lat by Obs 34° 49 Long 34° 32

Thursday
March 10 Commences this day with fine breeze from the North
and pleasant Middle and latter part the same
So Ends

Sunday
March 11 Begins this day with strong breeze and cloudy
Spoke the channels of Sag harbour Middle and
latter part the same as the former
So Ends the day 34° 26 Long 37° 18

Monday
March 12 Commenced these twenty four hours with fine breeze
from the S E and pleasant the channels in comparison
Middle and latter part the same as the former
Lat by Obs 33° 14 Long 39° 04

Tuesday
March 13 Begins this day with fine breeze and pleasant
Middle and latter cloudy Lat 31° 4
Long 41° 31

Wednesday
March 14 The first part of these twenty four hours equally
with Middle and latter part the same
So Ends Lat

Thursday
Mar 15 Begins this day with fine breeze Middle and
latter part the same Spoke the Sterling of London
at sundown took in till Lat 28° 16 Long 4

Ship Climatis bound to Madagascar

Friday
March 16 Commenced this day with fine breeze sent down
the old top gallant mast and sent up others
middle and latter part pleasant so ends

Lat 28° 26'

Saturday
March 17 Began this day with cloudy weather middle
and latter part pleasant so ends Lat 28° 40'

Long 43° 00'

Sunday
March 18 First part of these twenty four hours began
with strong breezes from the S East middle
and latter part the same so ends Lat

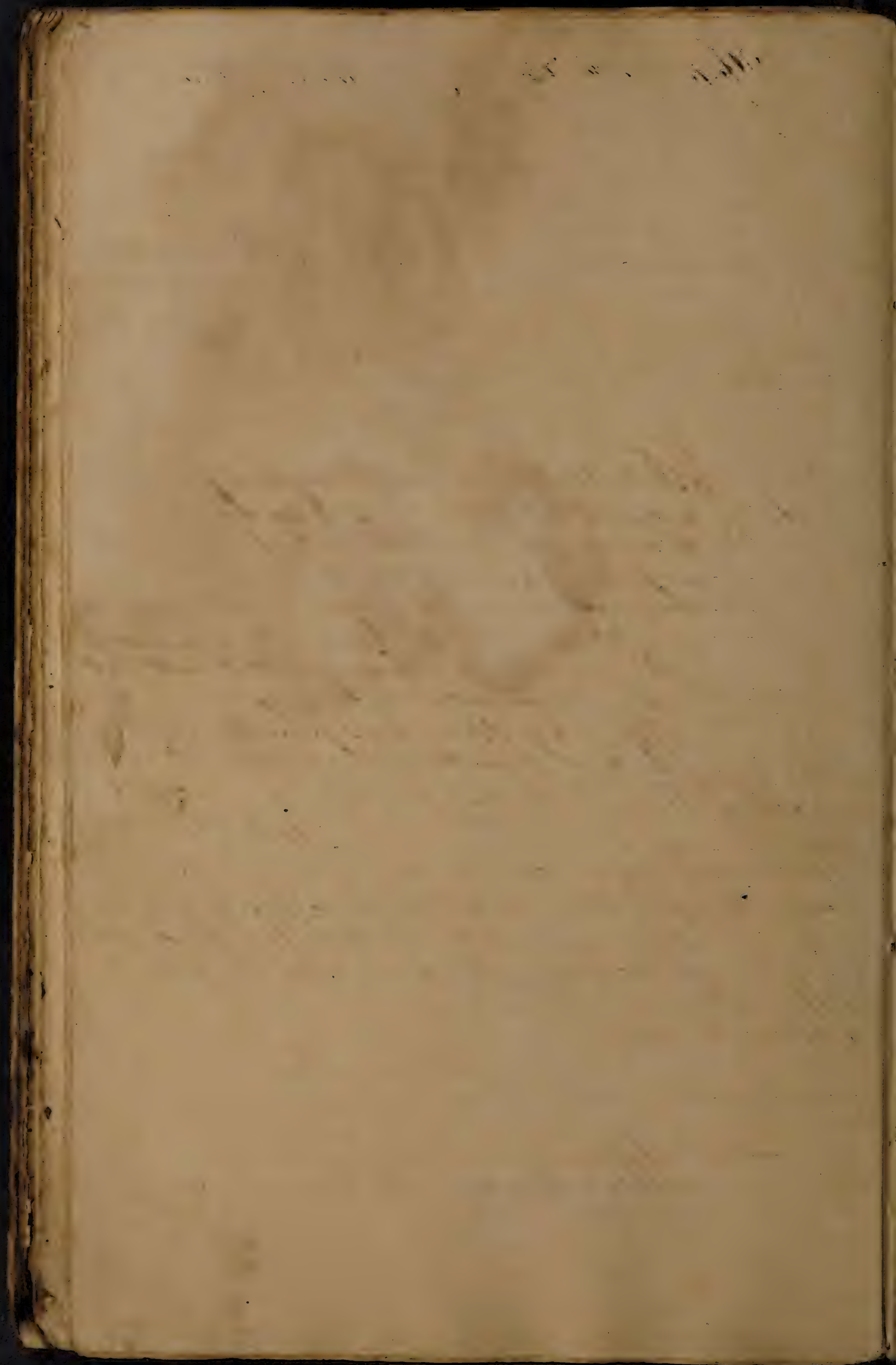
Monday
March 19 While twenty four hours strong breeze from the S East
and pleasant weather at 2 P.M. Spoke the
Hornet of Bay Harbour Capt Rogers Capt.
in sail and headed to the Westward through
the night at 6 P.M. Single sheet top sails
and stood in for the land at 11 P.M. saw the
Pt of Madagascar bearing East S East Dist
20 miles so ends Lat 28° 17'

Tuesday
March 20 All this day strong breeze from the S East and
pleasant rain down the land to the North
so ends the day the Hornet in company
Lat 23° 39' South

Wednesday Commenced this day with fine weather and
March 21 pleasant at 4 P.M. saw Paray Pt the
night at 4 A.M. stood in for the bay the
sound being a head so ends the Hornet

Thursday
March 22

Ship Climatis New London



Ship's Journal
Thursday May 13th Begins this day with fine breeze from the N. W. and pleasant steering S. by E. Middle and Latter part the same So Ends Lat 25° 55'

Friday May 4 All of these twenty four hours light breeze from the N. W. and pleasant steering S. by E. So Ends Lat Long

Saturday May 5 Commences this day with hard squalls from the S. W. attended with rain took in the fore and main tops and double reefed the main the middle part pleat the latter part squally So Ends Lat

Sunday May 6 Begins this day with strong breeze and squally the middle and latter part the same the wind East saw some killers the Hounston in company So Ends Lat Long

Monday May 7 Commences this day with strong breeze from the East attended with light squalls of rain let the top sails double reefed the middle pleasant the latter part squally So Ends no Obs

Tuesday May 8 The first part of these twenty four hours begins with hard squalls from the South East and cloudy Middle and Latter part pleasant So Ends the day Lat Long 38° 02'

Wednesday May 9 Commences this day with fine breeze and clear sky East the middle strong breeze the latter part strong breeze and squally the wind is the North West So Ends Lat 29° 02'

Thursday May 10 Begins this day with fresh breeze from the East West the Hounston in company middle part pleasant the latter part the same saw 2 S. birds So Ends the day Lat Long 40° 20'

Friday May 11 Commences this day with light breeze from the S. W. with a heavy rolling swell on employed in setting up the main rigging the middle part heavy squalls attended with rain took reef the top sails the latter more moderate So Ends the day Lat 30° 30' Long

Ship Clement bound to the West ILL

Saturday
May 12
1838

Commenced this day with strong breeze from the S.W. morning. I lost the Middle and Latter part heavy squalls with a plenty of rain so ends the day.

Sunday
May 13

Begins this day with light breeze from the West and pleasant the Middle and Latter part strong breeze so ends the day Lat 31° 36'

Monday
May 14

Commenced this day with strong breeze from the S.W. and pleasant Middle and Latter part the same so ends the day Lat 32° 43' Long 47° 35'

Tuesday
May 15

Commenced this day with strong breeze from the N.W. and squally Middle part lost the main top Gallant sail the Latter part light breeze and pleasant so ends.

Wednesday
May 16

Begins this day with pleasant breeze from the S.W. and pleasant the Middle light winds and variable Latter part light breeze from the S.W. and pleasant so ends Lat by 33° 15' Long by 51° 17' by Chron 51° 17'

Thursday
May 17

Commenced this day with light breeze from the N.W. and light squalls of rain the Middle part pleasant Latter part light squalls with rain took in the main top Gallant sail and reef the Mizzen so ends Lat 33° 29'

Friday
May 18th

Begins this day with fine weather and pleasant breeze from the S.W. and pleasant the Middle squally the Latter part light breeze and pleasant so ends Lat 34° 14' Long by 55° 19' by Chron 55° 22'

Saturday
May 19th

Commenced this day with light breeze from the S.W. and pleasant the Middle part the same as the former the Latter part light squalls of rain so ends Lat 34° 49' Long 57° 33'

Sunday
May 20

All of these twenty four hours light breeze and pleasant the same as the former so ends Lat 34° 57' Long 59° 52'

Ship Clementis bound to St Pauls and Amsterdam
Monday May 21 1838
Commenced this day with strong breeze from the N.W. and squally double reef the tops and furl the main top Gallant Sails Middle part hard gale from the S.W. West attended with heavy squalls the latter part the same as the former So ends the day Lat 34° 57'

Tuesday May 22
The first part of these twenty four hours began with heavy gales from the S.W. and squally the Middle part more moderate the latter part pleasant with a heavy rolling swell on So ends the day Lat 34° 48'

Wednesday May 23
Commenced this day with light breeze and pleasant the wind S.W. the Middle part cloudy the latter fresh breeze and squally So ends Lat 35° 04' Longitude 64° 00'

Thursday May 24
Began this day with fresh gales from the N.W. West and squally took in the fore and main topsails and close reef the main the Middle more moderate the latter made all sail the S.W. So ends the day Lat 35° 34' Longitude 65° 10' East

Friday May 25
Commenced this day with light breeze from the S.W. and pleasant the Middle part calm the latter light breeze and cloudy Lat Longitude

Saturday May 26
The first part of these twenty four hours light air and cloudy the Middle part heavy the wind S.W. the latter part fresh breeze and pleasant So ends

Sunday May 27
Commenced this day with fresh breezes from the N.W. and pleasant the Middle the same the latter part cloudy So ends the day Lat 36° 15' Longitude 65° 30'

Monday May 28
Began this day with strong breezes from the S.W. West thick rain for the double reef the topsails the Middle and latter part light breeze and pleasant made all sail Towing 6° 28' So ends the day Lat 37° 32' Longitude 65° 10'

The Ship's Climate of New London 1838

Tuesday
May 29
1838

Begins this day with strong breeze from the S.W. and pleasant the middle thick rain with light of the Stonington look in the fore and middle of the day and double reef the main the Larer part heavy gales from the S.W. and Squally
So Ends the day Lat 37° 40 Long 78° 40

Wednesday
May 30

The first part of these twenty four hours begins with heavy gales from the S.W. and Squally the middle more moderate at 5 o'clock made Amsterdam S.W. bearing S by E Distance five miles the Larer the same as the former So Ends the day

Thursday
May 31

Commenced this day with strong breeze from the S.W. and clear spoke the Harbours of New London loose two boats and pulled in shore saw no whale the middle part light breeze attended with light squall of rain the latter part light breeze loose three boats and pulled in shore saw three whales struck one and took her along side So Ends

Friday
June 1st

Begins this day with light breeze and Squally the wind N.W. at mid commences cutting the whales and finished at half past 3 o'clock then angled in for the land the middle part strong breeze attended with heavy squall at 6 o'clock started the works the latter part heavy gales from the S.W. and the wharves do the boat reef the main topsail and pulled the fore sail split the fore top small square employed in hoisting So Ends
Lat 37° 28

Saturday
June 2

Commenced this day with strong breeze from S.W. and Squally the middle part the same the latter part finished hoisting and holed the oil down the after hatch at Double 11 ft 1 o'clock
So Ends the day Lat 38° 52

Sunday
June 3

Begins this day with fresh breeze and Squall the S.W. with heavy rolling swell on the main part more moderate loose ship and stood so the Southern the the same as the former
So Ends Lat 37° 38 Long 78° 30

Cruising for Whales at Amsterdam JH 1838

Monday
June 4
1838

Commenced this day with fresh breeze from the S.W. and
clouds the Gloucester in sight the middle more
moderate but the ship out the topsails and set the
main top gallant sail the latter part thick hazy
withered so ends the day Lat 37.12 Long 78.02
Begins this day with thick hazy weather the wind S.W.
Herring 4 in Plawone whale called it a bright whale I saw
but did not see him any more the middle light breeze and
cloudy with a heavy rolling swell on the latter part
heavy gales from the S.W. So Ends

Tuesday
June 5

Wednesday
June 6

Commenced this day with heavy gales from the S.W. and
squally lost the row boat the middle more moderate
the latter part fresh breeze cleared the boat and
put in shore saw a number of whales but did not get
the Gloucester got one the Phelias struck one and
cut from him the middle strong breeze and hazy

Thursday
June 7

Begins this day with strong breeze and squally
the wind S.W. the middle part the same the
latter part heavy gales from the S.W. three ships
in sight so ends Lat 38.20 Long 77.23

Friday
June 8

Commenced this with heavy gales from the S.W.
and thick hazy weather furl the fore and main
topsails and lost sight the Gloucester the middle
moderate the wind S.W. saw one bright
whale the land in sight the latter part stood
in for the land cleared the boat and put in shore
saw three whales the Palladium got one three ships
in sight so ends the day

Saturday
June 9

Begins this day with pleasant breeze from the
N.W. and pleasant the middle part fresh breeze
and squally the latter part heavy gales three
ships in sight so ends

Sunday
June 10

Commenced this day with strong gales from the
S.W. and thick rainy weather the middle
part the same the latter part more moderate

Ship Clementis of New London

Monday
June 11



Commenced this day with hard gales from the West attended with heavy squalls from the main. Spence saw 2 right whales off shore the middle part more moderate the latter part pleasant. Struck in for the land loaded put in shore saw a number of whales struck two killed one and took her along side spoke the In case so ends

Tuesday
June 12

Spence and light squalls of rain took the water along side and commenced cutting the middle part moderate started the work the latter part hard gales employed in boiling three ships in sight so ends the day

Wednesday
June 13

Commenced this day with hard gales from the SE in an cloudy day saw two whales off shore the middle part the same the latter part finished boiling spoke over to St Paul spoke the Whales of Washington laying another cutting a whale so ends

Thursday
June 14

Begins this day with strong breeze from the SE in and heavy squalls pouring down the middle part thick rainy weather the latter part heavy gales one ship in sight so ends the day

Friday
June 15

Commenced this with hard gales from the SE in thick rainy weather the middle part the same the latter part thick rainy weather so ends

Saturday
June 16

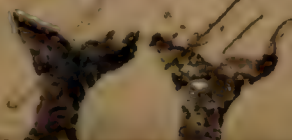
Begins this day with fresh breeze from the SE in and heavy the middle part baffling winds attended with squalls of rain the latter part fresh gales St Pauls in sight spoke the Edward of Spence so ends the day

Sunday
June 17



Commenced this day with fresh gales from the Westward attended with heavy squalls of hail and rain the middle part the same the latter part fresh breeze and squally so ends three ships in sight

Monday
June 18



Begins this day with fine weather struck one whale and cut the middle and latter part the same so ends

Tuesday
June 19



Commenced this day with light breeze and pleasant to the
struck the whales the iron drawn from one. Spouting
blood cut the line off with the Spade from the other
four ships in sight the Morningstar got a whale
so ends the day

Wednesday

June 20



Commenced this day with fine weather pulled under
wind struck three whales on stove a boat the
others took a line and lost one so ends the day
got my legs hurt very bad and

Thursday

June 21



Begins this day with fine weather pulled in
and struck four whales held him and
took him along side at 2 PM commenced in
the Middle and latter part thick fog

Friday

June 22

Commenced this day with hard gales from
the west pulled in under sail struck a
whale he went off spouting thick blood
employed in boiling the middle and
latter part the same so ends

Saturday

June 23

Begins this day with strong gales from
the west spoke the Sallowam the ship
and latter part the same English
boiling so ends

Sunday

June 24

Commenced this day with strong breeze
from the west and squally the ships in sight
the middle and latter part more moderate so ends

Monday

June 25

Begins this day with fine breeze and pleasant
weather the to the west pulled in under arms show
ing and the iron drawn middle and latter part
the same three ships in sight the cutting down

Tuesday

June 26



Commenced this day with strong breeze and pleasant
struck a whale held him along side and cut him
for the fore topside mast kept and headed to the
west at one o'clock ship a few and show the least boat
and carried away the latter part the weather to the
very much it being so rough to be so sunk to
rise no more latter part hard squalls and

Wednesday
June 27

Ship (Lemais) of St. Louis 1838
Commenced this day with hard squalls of wind and
rain middle part the same. Latter part more
moderate. Commenced mending hands but did not
go in there having but one boat to leave for the

Thursday
June 28

Begins this day with strong wind from the west
piled in to and struck one whale killed a whale
and cut her in middle part the same. Latter part
gales employed in bottling & Shipped in sight

Friday
June 29

This day begins with heavy gales from the west
broke out the fore hole on the Starboard side and
stode down 80 lbs. of middle and latter part
the same on ship in sight employed in bottling
So ends the day

Saturday
June 30

Begins this day with hard gales from the west and
squally employed in bottling and storing down
middle and latter part gales so ends

Sunday
July 1
1838

Commenced this day with hard gales from the west
and squally middle and latter part the same
employed in bottling so ends the day

Sunday
July 2

Begins this day with strong wind at 9 P.M.
blew a hurricane finished bottling and took in the
main & top sails at 2 A.M. on carriage away the Lobster
quarter boat middle part squalls of rain and
hail and snow and the wind without mercy
double lashed the oil we had on deck the latter
part the same as the former so ends

Monday
July 3

Commenced this day with a little relaxation to the
wind got the main to sail on the Spencer's place
well to pieces and the St. sailed on board them to
mend middle part more moderate got the fore
sails latter part quite pleasant stowed down the
oil the carpenter employed about the boat to
have put one boat that we can leave the other
thing being perfect bricks Sailed 2 mechanics
shipped during last so ends the day

1838

July 11
Thursday

Beginning for the day with a Miller turn
Began this day with hard gales as usually the carpenter
employed in mending both the boats in repairing both
Middle and Latter part the same So ends

Friday
July 12

Began this with hurricanes all sails in making the
Storm sailed Middle and Latter part the same
So ends the day

Saturday
July 13

Commenced this day hard gales from the S.W. Middle
and Latter part the same So ends

Sunday
July 14

The first part of the day twenty four hours began
with hard gales all sails in making the
and Latter part the same So ends the day

Monday
July 15

Commenced this day with strong breeze from the
S.W. out of the S.W. the wind S.W. and
employed in repairing the main of the
the carpenter in repairing both the Middle
and Latter part light breeze and pleasant
So ends

Tuesday
July 16

Began this day with a calm weather and clear
employed in repairing sails and boats the Middle
and Latter part light breeze from the S.W. and
fair weather So ends the day Past 3.46

Wednesday
July 17

Commenced this day with strong breeze from the
S.W. and pleasant the carpenter employed in repairing
both the Middle and Latter part light breeze
took in the fore and main top sails and boats right
the main So ends the day

Thursday
July 18

Began this day with strong breeze from the S.W. and
fair weather the Middle and Latter part more
moderate So ends employed in repairing both

Friday
July 19

This day began with

Ship's Log of New London 1838

Saturday July 15 1838 Commenced this day with hard gales from S by W at noon with squalls of rain and snow from Amsterdam covered with snow. Wind to the westward. Middle and latter part the same. No ships in sight. So ended this day of our Lord

Sunday July 16 Began this day with light breezes from the South with squalls of rain and snow. Amsterdam in sight till the first part of the forenoon and set main top gall sails. Middle and latter part pleasant. Three ships in sight. Employed in boat building. So ended

Monday July 17 Commenced this day with light airs and cloudy till wind south at 11 AM. Put under arms. Struck one whale head and took her along side at five commenced cutting the middle and latter part the same. 3 ships in sight. So ended the day

Tuesday July 18 This day began with light breezes and baffling. Started the works. Middle and latter part the same. 4 ships in sight put in under arms. Struck one whale got the boat capsized and lost a line. So ended the day. Employed in boiling.

Wednesday July 19 Commenced this day with hard gales from the N by W and squally. The middle and latter part the same. No ships in sight. So ended

Thursday July 20 Began this day with heavy gales from the S by W at noon with squalls of rain and snow. The middle and latter part more moderate. Wind to the north and started the works. Spoke the "Yesharosa" which got some coal boards out of him. So ended this day.

Friday July 21 Commenced this day with hard gales from the N by W at noon with squally. Middle and latter part the same. So ended. Lat 35.10

Saturday July 22 Began this day with hard gales from the N by W and squally. Middle and latter part the same. So ended. Latitude 34.02

Sunday
July 22
1838

Towards the Ill of France 18.38
Commenced this day with hard gale from S.W. Middle
and latter part more moderate for the S.W. part
No. 615 Port 32

Monday
July 23

Begins this day fresh breeze and cloudy the wind
S.W. the middle and latter part light breeze with
a heavy sailing swell on broke out the after part and
stowed down 75 bls oil so ends the day

Tuesday
July 24

This day begins with light breeze from S.W. and clear
middle part the same the latter part the same as the
former at hands employed in ship duty so ends
No. 615 Port 32

Wednesday
July 25

Commenced this day with light breeze and fair
weather the wind S.W. the middle and latter part
same saw some fin backs so ends the day
Port 29.30 Long
Lat 28.38 Long by Chron 73.12

Thursday
July 26

Begins this day with light breeze and fair weather the
wind S.W. the middle and latter part the same
Port 27.39 Long by Chron 73.42 by Chron 73.00

Friday
July 27

All these twenty four hours light breeze and clear
weather saw some fin backs so ends the day
Port 27.25 Long by Chron 73.00

Saturday
July 28

Commenced this day with light breeze from the S.W.
and clear weather the middle and latter part the
same so ends Port 27.00 Long

Sunday
July 29

The first part of these twenty four hours begins with
light breeze and fair weather the middle part the
same the latter same as the former so ends
Port 26.28 Long by Chron 70.00 by Chron 70.32

Monday
July 30

Commenced this day with light breeze from the S.W.
and clear weather with light squalls of rain the middle
and latter part pleasant so ends the day

Tuesday
July 31

All this day light breeze and fair weather
the wind S.W. so ends Port 25.35
Lat 25.35

Ship Chomaris bound to the Ill of France 1838
August Commenced this day with strong breeze from the
Wednesday 1 sand squally the Middle and Latter
part the same so ends the day

August 2 All this day strong breeze from the East attended
with squalls of rain so ends the day Lat 21.38 Long 68.32

August 3 Commenced this day with strong breeze from the East
Middle and Latter part the same so ends

August 4 Begins this day strong breeze from the East and
and pleasant weather Middle and Latter part the
same so ends the day Lat 20 Long 69.51

August 5 Commenced this day with light breeze from the East clear
weather Middle and Latter part the same so ends

August 6 Begins this day with light breeze from the East
attended with light squalls of rain the weather
part the same the Latter part made strong SE
breeze with the Ill of France bearing N by E
at 10 o'clock saw a number of hump backs whales
so ends the day

August 7 Begins this day with light breeze and squally
then through between Thonine Ill and Curieu Ill
at three the Pilot came on board of us at 6 we came
to anchor out side of the reef barrow in glass
of water Coral bottom 60 fathoms of chain fured
the sails and the Capt went ashore so ends
the day

August 8 This day all hands employed in repairing the
things sent down the Cross Jack yard and so on

August 9 All hands employed in getting of water and
stowing it down the four hold so ends

August 10 Begins this day with light breeze and fair weather
Saturday 11 All hands employed in watering boards

August 12 The Saloon was taken up shore on liberty 20
July 13 Some came off from the ship and
August 14 The Saloon was taken up shore on liberty
so ends the

These (Continued) laying at the 1st of August
August 11 Commenced this day with light breeze from the East
At 8 AM got under way and lay off and on the
Hondag 13 bar low Middle and latter part the same so ends
August 14 Begins this day with strong breeze from the East and
pleasant the Middle and latter part the same so ends
Some hump backed whale started did not get past
four ships laying off and on the bar low so ends the

Wednesday August 15 Commenced this day with light breeze and squalls
the Middle and latter part the same so ends

Thursday August 16 Commenced this day with light breeze and fair weather
the land part steering by to the Middle part
the same the latter part made the 1st of morning
bearing 1st Distance 10 miles the Houghton in company
party saw some hump backed so ends

Friday August 17 Begins this day with light breeze from the East
and pleasant the Middle and latter part
the same the Houghton in company party

August 18 Commenced this day with light breeze from
the North and pleasant weather the Middle
and latter part the same last sight of the
Houghton saw some hump backs so ends
the day Lat 24.40 Long 52.42

August 19 Begins this day with fine breeze from the East
and pleasant the Middle part the same the
latter part saw some hump backs so ends
Lat 24.47 Long 50.47

August 20 Commenced this day with fine breeze and fair weather
the Middle part light squalls with rain the
latter part the same as the former one
in sight so ends the day Lat 25.46
Long 49.16

August 21 Commenced this day with light breeze and fair
weather the Middle and latter part the same
so ends Lat 27.50 Long 47.16

August 22 Begins this day with light breeze and fair
weather the Middle and latter part the same
so ends

Ship *Demaris* bound to the *Isle of France* 1838

August Commenced this day with fine breeze from the *Go*
Thursday 23 and pleasant weather the *Ship* *Stacy* *Stacy*
1838 from *Warriller* bound home the *Middle* and *Latter*
part the same as the former so ends *Lat* 27.50
Long *Chron* 44.36

August Begins this day with fresh breeze from the *Go*
Friday 24 and pleasant weather the *Middle* and *Latter*
part the same so ends the day *Lat* 28.36

August Commenced this day with light squalls and *off*
Saturday 25 and light breeze in the *Middle* *Ship* *Gallant* *Part*
the *Middle* part calm the *Latter* part saw a hump *Bo*
sailed did not get past so ends the day

August Commenced this day with light breeze and variable the
Sunday 26 *Middle* part the same the *Latter* the same as the
former so ends this day *Lat* 29.23 Long *Chron* 41.32

August This day begins with fresh breeze from the *Go*
Monday 27 and cloudy saw some hump *Suck* the *Middle* part
the same the *Latter* part the same so ends *Lat* 29.30

August Begins this day with fresh breeze from *Go* and *Go*
Tuesday 28 weather the *Middle* part cloudy the *Latter* part the
so ends *Lat* 30.03 Long 37.45

August All this day light breeze and cloudy the *Wind* *Ship*
Wednesday 29 clearing *Ship* by *Go* ends the day *Lat* 32.45

August Commenced this day with fresh breeze from the *Go* and
Thursday 30 cloudy the *Middle* part the same the *Latter*
the same as the former so ends *Lat* 33.10 Long 36.36

August Begins this day with strong breeze from the *Go*
Friday 31 saw *Green* *Whales* heard *Struck* one *hump* and
took him along side to *project* to cut *fat* by him
all night the *part* the same the *Latter* *part*
more *knocked* commenced *caking* *fat* at *10* o'clock

Crusing for Whales of Cape Arguelles

September
Saturday 1838 Commenced this day with fresh breeze with a heavy swell
Started the works the Middle and Latter part
James So Ends Lat 36.50 Long 34.39

September
Sunday 2 Began this day with strong breeze from the S.W.
and pleasant finish cutting the Middle
and Latter part the same

September
Monday 3 Commenced this day with light breeze and changing
attendance with thunder and lightning the
part fresh breeze the Latter started down
the oil so Ends Lat 38.30 Long 38.00

September
Tuesday 4 Commenced this day with light breeze from
the Southward and thick & hazy weather
the Middle part the same Latter part same

September
Wednesday 5 Saw bright whales but could not tell what they were
did not get fast so
Ends the day Lat 37.41 Long 38.38

September
Thursday 6 Began this day with strong breeze from the North
and pleasant saw bright whales boarded but
did not get fast found the whales a feeding
with their heads but the Middle part pleasant
the Latter part saw 4 or 5 whales boarded struck
one bald and took her along side and commenced
so Ends Lat 37.19 Long 38.54

September
Friday 7 Commenced this day with light breeze and pleasant
finish cutting the whale and started the
works saw 2 whales boarded did not get fast the
Middle part pleasant the Latter part spoke the
Ship from London saw one whale boarded did not
get fast so Ends the day

September
Saturday 8 Commenced this day with thick & rainy weather saw one
whale two ... to load the Middle part the
same attended with ... Latter part

Ship Cleomalid of New London 1838
September Commenced this day with light breeze and pleasant
Sunday 9 saw one whale board struck her side and
1838 took her along side and cut her in the middle
part pleasant started the work the latter
the same so ends the day Lat 36.34 South
39.24

Sunday
Sept 10 Begins this day with light breeze from the East
and fair weather Employed in pulling Middle
and latter part the same saw 2 Whales board
struck one side and took him along side and
cut him in so ends the day Lat 36.39 Long 37.5

Monday
Sept 11 Commenced this day with pleasant weather Stowed
down so lbs oil down the after hatch middle
part the same the latter part saw a number
of whales board struck him and took her along
side so ends Lat 37.07

Tuesday
Sept 12 Commenced this day with fair weather and the latter
in employed in pulling the Middle part the
same the latter part rainy Employed in pulling so
ends Lat 37.45 Long 39.51

Wednesday
Sept 13 Commenced this day with fair weather saw fin backs
saw a school of black fish board and got two the
Middle part calm the latter part hazy saw a
Ship to windward whaling saw one whale so ends
Lat 37.48 Long 40.14

Thursday
Sept 14 Begins this day with pleasant weather finished
pulling Middle and latter part rainy ends
Lat 37.42 Long 40.14

Saturday
Sept 15 Commenced this with fine breeze with a swell on
saw 2 bright whales and a number of fin backs
board struck one side and took him along side
Middle thick rainy weather latter part ship
and cut the whale in to the leeward starboard
the work so ends the day
Lat 38.09 Long 39.30

Cruising for Whales of Cape S. Agulhas 1838
Sunday Sept 16 Commenced this day thick hazy weather sails
fine & fresh the Middle part pleasant the
latter strong breeze from the North so ends the day
Lat 38° 15' Long

Monday Sept 17 Begins this day with strong breeze from the North
and thick hazy weather the Middle part fine the
latter part heavy squalls attended
with rain thunder and lightning. Stowed down the
oil so ends the observation
Lat 38° 15' Long

Tuesday Sept 18 Commenced this day with fresh gales from the S.W.
and squalls spoke the Cape of Good Hope
the Middle part pleasant steering to the North the latter part
the same so ends Lat 37° 46' 40" 25

Wednesday Sept 19 Begins this day with light breeze from the West
and pleasant spoke the Cape of Good Hope
the Middle and latter part the same so
ends steering to the North Lat 37° 16' 25
Green water

Thursday Sept 20 Commenced this day with light breeze from
Northwest and pleasant the Middle part
the same the latter part thick foggy weather
thick water so ends the day Lat 37° 00' 25
Long 40° 11'

Friday Sept 21 Commenced this day with pleasant weather the Chile
in company the Middle thick rainy weather
attended with thunder and lightning the
latter part pleasant Lat 36° 38' Long 39°

Saturday Sept 22 Begins this day with light breeze from the North
steering to the West the Chile in company the
part thick hazy weather the latter part the
same so ends Lat 37° 19' Long 39° 01'

Sunday Sept 23 Begins this day with fine breeze from the S.E.
and foggy attended with thunder and lightning
and heavy rain the Middle part much the same
steering to the East latter part
the wind shifted to the S.W. and foggy

Ship (Climatic) of Vile London 1838

Monday
September 24
1838
Commenced this day with fine breeze from the N.W. and
ranging Middle and latter part the same and
the day

Tuesday
Sept 25
The first part of these twenty four hours began
with fine breeze from the N.W. and ranging Middle
and latter part more pleasant 33°/5° Long 40°

Wednesday
Sept 26
Remained this day with fresh breeze from the N.W. and
thick rainy weather Middle part the same the latter
part more pleasant. Sailed some fine backs so ended
the day Lat 34°42' Long 40°03'

Thursday
Sept 27
Began this day with fine breeze from the north and
pleasant. Sailed a number of whaling boats. The
ships the line parted from one another took the
other along side and cut her in and started the
boats the Middle part pleasant the latter part
the same. Sailed 2 whaling boats struck one whale back
along side so ended Lat 34°22' Long 40°00'

Friday
Sept 28
Began this day with fine weather cut the whale
in Sailed a ship to the Leeward the Middle part the
same as the former the latter part Sailed 2 whaling
boats struck one whale back along side and
cut her in one boat capsized and lost a line
so ended the day Lat 34°04' Long 40°23'

Saturday
Sept 29
Began this day with fine breeze from the north
and pleasant employed in boiling Sailed 2 boats
to the Leeward Middle part more pleasant latter part
the same so ended

Sunday
Sept 30
Commenced this day with strong breeze from the
north and pleasant employed in boiling
and stowing down Middle and latter part the
same. Sailed Lat 33°26' Long 41°25'
We find a current setting to the east in the middle
of the moon and to the south in the Decade
of the moon and the green water shifted with
it and the birds whole the birds is the whole

Monday
Oct 1st
Remained this day with fine breeze and pleasant
Middle part ranging the latter part the
employed in boiling and stowing

Thursday
Oct 12
1838



Expanding for whales to the Cape of Good Hope.
Began this day with strong breeze from the north and
fairing the middle part pleasant the latter part
began to blow two whales leaved struck the two whales
held them both took one along side cut from the
other so rugged could not save them both
So Ends the day Lat 32° 15' Long 41° 40'

Wednesday
Oct 11

Commenced this day with rugged weather cut the
whale in the wind S W started the boat by the
middle part more pleasant the latter the same
So Ends Lat 31° 53' Long

Thursday
Oct 10

Began this day with fine breeze from the South
pleasant the middle part squally the latter
part the same

Friday
Oct 9

Commenced this day with strong breeze from the S W and
cloudy a heavy fog on Middle part
began the latter part finished killing and drawing
the oil down the after hatch and choked it off
So Ends this day

Saturday
Oct 8

Began this day with thick rainy weather the wind
blew from the S to the Middle part the wind
shifted to the S W and plenty of rain the latter
part the same So Ends the day Oct 8

Sunday
October 7

First part of these twenty four hours began with
gale from the S W and cloudy the middle
and latter part pleasant saw a ship steering
and So Ends the day Oct 7 Lat 41° 20'

Monday
October 6

Began this day with fine breeze and fair weather
the middle and latter part the same
So Ends Lat 41° 08' Long 41° 01'

Tuesday
Oct 5

Commenced this day with strong breeze from the
S W and pleasant the middle part
the same the latter part more pleasant
So Ends the day Lat 39° 41' Long

Ship Clementis of New London 1838

Wednesday Commenced this day with fine breeze from the West
Oct 10 and cloudy later also sailed the Middle part
1838 pleasant the latter part the same so ends the day
saw 3 merchant ships steering East Lat 38.35 Long 41.36

Thursday Begins this day with light breeze from N by E and fair
Oct 11 weather saw one fine Backsaw ship in sight the Middle
and latter part the same so ends the day Lat 37.13
Long by Lunar Obs 44.03 by Chron 43.03

Friday Commenced this day with light breeze and fair weather the
Oct 12 Middle and latter part the same so ends the day
Lat 36.04 Long by Chron 44.47 by Lunar 44.53

Saturday Oct 13 Commenced this day with light breeze and fair weather the wind was
the Middle part the same the latter part the same as the
former saw 2 merchant ships steering S by E saw some
fine backs so ends Lat 34.51 Long by Lunar 46.1 by Chron 46.0

Sunday Oct 14 Commenced this day with fine breeze from the N by E and fine
steering to the Eastward the Middle part the same the latter
part the wind shifted around to the Southward and thick
foggy weather so ends Lat 34.17 Long 50.13

Monday Oct 15 Commenced this day with fine breeze from N by E and fine
the Middle the Middle part the wind hauled to the West
the latter part calm saw some fine Backs saw one whaler
called him a whaler going quick to the North so ends
Lat 34.14 Long 52.27 East

Tuesday Oct 16 Begins this day with calm weather the Middle part
light breeze from the Southward the latter part the same
so ends Lat 34.07 Long 53.12

Wednesday Oct 17 These windy few hours light breeze from the North and
calm. saw some fine Backs going quick to the S by E
so ends Lat 34.06

Thursday Oct 18 This day begins with calm weather the Middle
part light breeze and thick foggy weather the latter
part fresh breeze from the S by E saw some fine Backs
so ends Lat 34.14 Long 56.40

Friday Oct 19 All these windy few hours light breeze from the North
and fair weather saw a number of fine Backs so ends
Lat 34.24 Long 57.30

Expanding for Whales 1838

Saturday
October 20
1838

Commenced this day with calm weather and clear
the Middle part light breeze from the West and
pleasant the latter part fresh breeze late fresh
So ends the day Lat 34.32

Sunday
October 21

Begins this day with light breeze and fair weather late
two whales board going quick to the Southward could
not tell what they were the latter part fresh breeze
saw one whale board struck held and took her along
side So ends Lat 35.20 Long 68.10

Monday
October 22

Commenced this day with strong breeze from the NW
cut the whale in the middle and latter part
the same So ends Lat 35.07 Long by Lunar 68.10

Tuesday
October 23

Begins this day with fresh gales from the NW
saw a number of whales board did not get fast
middle and latter part more moderate then
into the North So ends the day Lat 34.59 Long 68.10

Wednesday
October 24

Commenced this day with fine weather the wind
I & with saw some fin backs the middle and
latter part more ship and stood to the Southward
So ends the day Lat 34.55 Long by Lunar 67.43

Thursday
October 25

Begins this day with fresh breeze from the NW
pleasant spoke the ship struck 93 days from
Plymouth bound to Bombay the middle and latter
part the same So ends Lat 35.09 Long 67.00

Friday
October 26

Commenced this day with strong breeze from the NW
and cloudy saw three whales board struck one
and sunk him the middle part thick raining
together the latter part hard gales from the NW
saw 3 whales to inquire to lose So ends the day
Lat 35.27 Long by Lunar 68.46 by 68.00

Saturday
October 27

Commenced this day with hard gales from the South
howling the middle part more moderate the
latter part pleasant a heavy rolling swell on
the sea the cat town between deck in the afternoon
saw a plenty of fin backs So ends the day
Lat 35.07 Long 68.41

Ship Climax New London 1838

Sunday
Oct 28

Began this day with hard gales from the S.W. and rainy middle part looking the fore sail the latter part of the fore sail & So Ends Lat 36.06 Long

Monday
Oct 29

Continued this day with hard gales from the S.W. and rainy the middle and latter part the same Lat 36.20 Long 6.00

Tuesday
Oct 30

Began this day with hard gales from the S.W. and rainy the middle part hard gales the latter part the same Lat 36.20 Long

Wednesday
Oct 31

Continued this day with hard gales and rainy middle and latter part the same So Ends

Thursday
November 1

Began this day with hard gales middle part more moderate latter part saw several whales bore struck side took along side struck another and draved the whales lay So Ends latter part squally Lat 35.03

Friday
November 2

Began this day with strong breeze and a heavy falling snow on board ship and cut the whale middle part the same latter part more snow So Ends Lat 34.11 S

Saturday
Nov 3

Continued this day with light airs from the S.W. pleasant middle part the same latter part a great number of bright whales bore struck side and took along side and cut them in So Ends the day Lat 34.39

Sunday
Nov 4

Continued this day with strong breeze from the west and squally the middle heavy gale from the S.W. the latter part the same

Monday
Dec 5

Continued this day with moderate weather the middle part warmer the took again the latter part showed the masts the fore part saw whales in sight Lat 34.29

Tuesday
Dec 6

The fore part of the day twenty four hours light with strong breeze from the S.W. the latter part

Expanding for Whales to the east
water at the board again faster to two the iron broke
from one cut from the other it being suggest Middle
and latter part the same as the former To end

Wednesday
Nov 7

Begins this day with hard gales from S.W. and S.W.
S.W. plenty of Whales Middle and latter part the
same To End Lat 34.45 Long 58.00

Thursday
Nov 8

Begins this day with hard gales S.W. plenty of Whales
Middle part rainy latter part some for Whales
Struck a calf like took along side and cut him
To End Lat 34.34 Long 58.20



Friday
Nov 9

Commence this day with hard gales from the S.W. and
S.W. Middle and latter part the same
To End Lat 34.30

Saturday
Nov 10

First part of these begins with hard gales from
the S.W. and S.W. Middle and latter
part the same S.W. plenty of Whales Lat 34.45

Sunday
Nov 11

Commence this day with light breeze with a heavy
fog on S.W. plenty of Whales mostly
them calves the Middle and latter part the same
as the former Struck a calf cut from him To End
Lat 34.58.00



Monday
Nov 12

Commence this day with calm weather S.W.
Whales the Middle part calms Lat to the South
the latter part calms To End Lat 34.35
Long 60.00 East

Tuesday
Nov 13

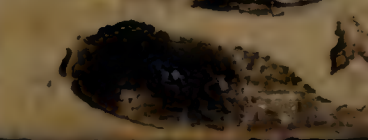
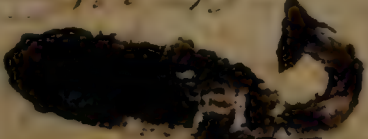
Begins this day with hard gales from the S.W. and
S.W. spoke the Margaret of St. John and
one whole saw some Whales appears too long
to the South and Middle and latter part the same
To End Lat 34.45 Long 60.00

Wednesday
Nov 14

Commence this day with hard gales the Middle
part more moderate the latter part the same S.W.
2 Whales leaved did not get full S.W. plenty of
fin 7 Whales To End Lat 34.37 South

Thursday
Nov 15

The first part of these twenty four hours begins with
light and from the S.W. and pleasant S.W. and
Whale and took him along side and cut him in the
Middle and latter part the same S.W. 2 Whales
and took him along side and cut him To End Lat 34.37 East



Ship's Log of the Ship London 1838

November
Friday 18
1838

At these morning four square light breeze from
the Eastward saw some fin backs the Ship
in sight Employed in boiling To End the day

Lat 34° 30' Long 61°

November
Saturday 19

Commenced this day with light breeze from the East
and thick foggy weather the middle and latter
part clear saw no whales To End 35° 30'

Long 39° 00'

November
Sunday 18

Working this day with light breeze from the East
thick foggy weather saw some whale heard struck
saw a whale along side and cut her in the middle
part calm the latter part heard a whale
and took her along side and cut her in employ
in boiling and showing the fore whale To End
got one boat down Lat 35° 40' Long 60° 10'

Monday
Nov 19

Commenced this day with fine weather the wind
to the South saw whales heard did not get past
the middle part the same the latter part the
same To End Lat 35° 43' Long 60° 10'

Tuesday
Nov 20

Began this day with strong breeze from the
West and thick rainy weather the middle part
more moderate the same part light breeze with
a heavy rolling swell on Employed in boiling
To End Lat 35°

Wednesday
Nov 21

Commenced this day with light breeze from the East
and cloudy day saw some fin backs the middle
and latter part the same To End the day
saw whales struck one and drove Lat 36° 10' Long 61°

Thursday
Nov 22

Began this day with strong breeze from the East
the middle and latter part the same To End
Lat 36° 12' Long by Sun 62° 10'

Friday
Nov 23

Commenced this day with strong breeze from the East
and thick rainy weather saw some head of
the middle part the same the latter part saw
several large whales heard struck two and
one and drove from the other took her along
side and cut her in To End Lat 36° 20'

Long Sun 62° 53'

Saturday
Nov 24

Commenced this day with strong breeze from the East
the middle part the same the latter part
saw some whales heard struck two and drove
To End Lat 36° 30' Long 63° 10'

Cruising for Whales to the East 1838

Sunday
Nov 25



Begins this day with strong breeze from the North. And pleasant Middle and Latter part the same. Saw no whales. Employed in boiling. So ends. Saw one Bale. Lat 36° 21' Long 63° 10'

Monday
Nov 26



The first part of these twenty four hours begins with strong gales from the North. Middle part the same. The latter part more moderate. Set 7 Pails of oil down below decks. So ends the day one ship in sight. Employed in boiling. Lat

Tuesday
Nov 27

Commenced this day with light breeze from the North. The middle part the wind was in the latter part the wind shifted to the East. A gale split the main top sail all to pieces. So ends the day.

Wednesday
Nov 28

Begins this day with hard gales from the North. Heading E & E by South. Home the middle part a heavy head beat on the main hauled to N & N by E. Latter part pleasant. So ends. Lat 35° 44' Long 62° 20'

Thursday
Nov 29

Commenced this day with fine breeze to the North and pleasant Middle and Latter part the same. The boats employed in sending up the mast and yards. So ends. Lat 36° 02' Long 60° 38'

Friday
Nov 30

Begins this day with fine weather. The wind from the North. Middle and Latter part the same. So ends.

Saturday
December 1

The first part of these days we have fine weather. Middle and Latter part the wind baffling. So ends the day. Lat 34° 53' P.

Sunday
Dec 2

Begins this day with light breeze from the North. Middle and Latter part the same. So ends. Lat 34° 28'

Monday
Dec 3

Begins this day with fine breeze from the North and pleasant. Set two and a half masts. During the middle part the wind hauled to the East. Latter part the same. So ends. Lat 34° 23'

Ship (Chambers) of St. Paul
Thursday Commenced this day with fine breeze from the N.E. W
Dec 4 the Messenger of Capt. Bedford 2200 bound home
Middle and latter part foggy

Friday Begun this day with light breeze from the N.E. W
Dec 5 and foggy Middle and latter part the same
Lat 34.27 Long 52.27

Saturday Begun this day with thick fog the land from the
Dec 6 N.E. W sent up. Main Mast Middle and latter
part foggy Lat ends

Sunday Commenced this day with fine breeze from the west
Dec 7 Jack Ship. and headed to the north. the messenger
in sight the Middle part the same at the former
the latter part the wind hauled to the S.W. set
the topmast. Steering sail Lat ends the day

Monday Begun this day with fine breeze from the S.W.
Dec 8 the Messenger of Capt. Bedford 2200 bound home
N.E. W Middle and latter part the same Lat ends
Latitude 32 18 S Long 50 18 E

Tuesday Commenced this day with fine breeze from the
Dec 9 S.W. and pleasant Middle part the same
Latter part saw the Messenger get a large sperm
Whale spoke for. and let her have a barrel
of Shooks Lat ends Lat 32 00 Long 49 00 E

Wednesday Begun this day with fine breeze from the S.W.
Dec 10 broke out the sun and captured it took
all of the forenoon Middle and latter part
strong breeze Lat ends Lat 31 32 S

Thursday Begun this day with fine breeze from the S.W.
Dec 11 and pleasant Middle and latter part
the same Lat 31 14 Long by Sun 43 38

Friday Dec 12 West part of the morning fine hours
beginning with with fine breeze from the S.W.
and pleasant Middle part the same
Latter part the wind hauled to the S.W.

Thursday 14th Bound from N. New London
Dec 13th & begins ship day with calm weather attended
with some thunder and lightning and rain
middle more pleasant. Latter part strong breeze
from the S.W. and pleasant to end the day

Friday Commenced ship day with strong breeze from the
Dec 14th O.N.E. and square. Middle part capricious
showers of rain. Latter part pleasant P.E.
Lat 32.00 Long 35.20

Saturday 15th Ship day with fine breeze from the
Dec 15th with fine breeze from the O.N.E. and
being middle part rainy attended with some
lightning. Latter part the same attended with
thunder and lightning at 4 P.M. the
wind shifted to the S.W. in a square
and blew heavy. Lat 32.26 Long 33.00

Sunday 16th & begins ship day with fine breeze from the
Dec 16th O.N.E. and pleasant. Middle and latter
part the same as the former. Lat 32.38 Long 33.19

Monday 17th Commenced ship day with strong breeze from
Dec 17th the O.N.E. and square. Middle part
the wind hauled to the N.E. Latter
part rainy. P.E. ends the day

Tuesday 18th begins with heavy weather at 11 A.M. look all
Dec 18th steering back and double reef the Masts
middle part more moderate the latter part
strong breeze from the S.W. at 11 the wind hauled
to the S.E. with plenty of rain and lightning
P.E. ends. Lat 35.00 Long 30.13

Wednesday 19th begins ship day with fine breeze from the
Dec 19th O.N.E. attended with some squalls of rain
and rain at 4 P.M. more ship hauling. N.E.
P.E. ends. Lat 35.12 Long 28.49

Thursday 20th Commenced ship day with strong breeze from the
Dec 20th S.W. let the ship out of the top. Middle
and latter part the same. P.E. ends. Lat 35.00 Long 30.00

1139 Ship Committed of New London
Friday Commenced this morning being from the NW
Lat 21 and pleasant Middle and latter part
1139 the same being the day Lat 35.20 Long 30.02

Saturday Beginning this day with light breeze from the S.W.
Dec 22nd Calm pleasant Middle part the same latter
part a breeze from the S.W. private Allice
P. End Lat 35.30 South

Sunday Beginning this day with fine breeze from the
Lat 25th Plea. and pleasant Middle and latter
part the same P. End Lat 35.42 Long 35.22 E

Monday We have fine breeze from the S.W. and
Dec 23rd pleasant at 6 the S.W. the Lucia Ship
to the NW Middle and latter part strong
gale from the NW took in for one more
steppling P. End Lat 34.25 Long 24.05 E

Tuesday Beginning this day with fine breeze from the
Dec 24th the same Lat 34.25 Long 24.05 E
with calm Middle and latter part the same P. End
you are employed in catching Sun with Lat 34.24
chipmunk

Monday Morning part of the twenty four hours being
Dec 26 with calm and pleasant Middle part the
same latter part the same of London
bound to Robertson P. End Lat 37.29 Long 22.40

Wednesday Commenced this day with light breeze from the NW
Dec 27 Middle and latter part calm fine a strong
current setting to the South P. End Lat 37.33
Long 22.19

Thursday First part of the twenty four hours
Dec 28 begins with light breeze from the NW Middle
part calm P. End Lat 37.43

Friday Beginning this day with fine breeze from
Dec 29 the NW and pleasant Middle part the
ship platoon of London Middle part
strong breeze latter part fine breeze from
the NW P. End Lat 37.43 Long by the
by the watch 20.30 20.30

New Bedford New London 1839

Monday Commenced this day with strong breeze from the
Dec 30 I E and pleasant middle and latter part
the same I ended Lat 36.26 Long 18.08

Tuesday Began this day with light breeze from the
Dec 31st I E and pleasant I saw a ship to seaward
middle part looked to the west I ended part
plenty of rain I ended Lat 34.31 Long

Wednesday Commenced this day with fine breeze from
the same I E and pleasant middle part the same
1839 I ended part I saw 2 bright whales took in the
and took too for the night Lat 34.30 Long 16.00

Thursday Commenced this day with cloudy rather
faint I attended with some squalls of rain I saw 3
whales board struck one killed took her along
side and cut her in I ended Lat 34.20

Friday Finished cutting the whale and started the
Jan 3 took middle and latter part pleasant
I ended the day

Saturday Began this day with light breeze from the
Jan 4 I took spoke the fore part of hull bound
to St Helena middle part strong breeze from
I E and cloudy finishes boiling latter part I
down the oil I ended Lat 34.04 Long 12.06

Sunday
Jan 5 Commenced this day with strong breeze from I E and
cloudy middle and latter part the
same I ended

Monday Began this day with fair winds blowing
Jan 6 from the I E and pleasant middle and
latter part the same Lat 26.23
Long by Lunar 40.34

Tuesday Commenced this day with light breeze
Jan 7 from I E and cloudy middle and
latter part the same I ended
Lat 35.05 Long by Lunar 25

1839 Ship (Dematis) of New London
Wednesday We have fine breeze from S E and pleasant
Jan 8 Middle and Latter part the same S E breeze

Thursday Begun this day with fine breeze S E and
Jan 9 John Sant sent to obtain the sails and Royal Mr
Sails and set them Middle and Latter part
the same as the former S. E. breeze Lat 21.22

Friday
Jan 10 Begun this day with pleasant breeze from
S E and pleasant middle and Latter part
the same. S E breeze Lat 19.22 Long 1.05 East

Saturday Commenced this day with light breeze from
Jan 11 the S E and blow day middle part the same
Latter part light shower of rain S E breeze
Lat 18.23 Long by Lunar Obs 25 miles

Sunday
Jan 12 First part of these 24 hours began with
light breeze from the S. E. and pleasant
Middle and Latter part the same

Monday Begun this day with light breeze from the S E
Jan 13 and pleasant S E breeze Lat 17.07

Tuesday Commenced this day with light breeze and J
Jan 14 Middle and Latter part inclined to calms
S E breeze

Wednesday We have light breeze from the S E and
Jan 15 pleasant middle part the same spoke
the Franklin - New Bedford 22.00 300
Spirits S E breeze

Thursday First part light breeze from the S E
Jan 16 and light breeze at 11 strength increased
land of St Helena was about 20 miles
Latter part stood into the road and came
to anchor in 13 fathoms water S E breeze

Friday
Jan 17 Commenced with fine pleasant weather and
watch on shore on S. E. breeze S E breeze

Howard's Attd London 1837

Saturday
Jan 18

Begins this day with fine breeze from the
SW Black Sea of Proboscis came to anchor
1700 the Mules of Warren 1300 the the the
of London 1900 39th 11 months out

got under
way and
good west
road

Sunday
Jan 19

Begins this day with fine breeze from the
all sail set to the breeze middle and latter part
the same Satt 1349 Long 942 by Chron

Monday
Jan 20

Begins this day with fine breeze employees in
scraping and sundry other jobs about the
and latter part the same So Ends Satt 1245
Long by Lunar 1707 by Chronometer 11

Tuesday
Jan 21

Commenced this day with fine breeze from S.E.
and pleasant Middle and latter part the
same So Ends

Wednesday
Jan 22

Begins this day with fine breeze from the
S.E. and pleasant Middle and latter part
the same So Ends the day Satt by Chron 27
by Lunar

Thursday
Jan 24

First part of these twenty four hours begins
with fine breeze from the S.W. and pleasant
middle part the same the latter part the
same So Ends the day Satt 9.25 Long 1215

Friday
Jan 25

Commenced this day with fine breeze from the
S.W. and pleasant Middle part the same
latter part made the S.W. of London 1800
S.E. (15 miles) stood along the S.W. 100 miles
13 miles and one ship to anchor in the harbor
Satt soon 745 South

Saturday
Jan 26

Begins this day with fine breeze from the
and pleasant Middle and latter part the
same So Ends

Sunday
Jan 27

First part of these twenty four hours begins
with light breeze from the S.W. and pleasant
Middle and latter part the same
So Ends Satt 314 Long 1642

1837
Monday (Commencing this day with fine breeze from the
Sensary 28 S.E. and pleasant S.W. Wind. Steaming on
a kind Middle and Latter part pleasant
So Ends Lat 34° 18' Long by Chron 19° 30' W

Tuesday (Commencing this day with strong breeze from
Jan 29 W. Wind pleasant Middle and Latter part
the same So Ends Lat 24° 10' S

Wednesday (Commencing this day with fine breeze and pleasant
Jan 30 Middle and Latter part the same So Ends

Thursday (Commencing this day with fine breeze from the
Jan 31 S.W. and strong Middle part cloudy the
Latter part a strong breeze to the Eastward
So Ends the day Lat 0° 00' North

Friday (Commencing this day with fine breeze from
February 1 the S.E. and pleasant Middle and
1837 Latter part the same Lat 1° 07'

Saturday (First part of these 24 hours beginning with fine breeze
February 2 from the S.E. and pleasant Middle and
Latter part the same So Ends Lat 2° 00' North

Sunday (We have fine breeze from S.E. the Middle and
Feb 3 Latter part Squally Lat 3° 00' S

Monday (Commencing this day with fine breeze from S.E.
Feb 4 Middle and Latter part Squally of Rain &c.
the day Lat 4° 11' North

Tuesday (Commencing this day with fine breeze from S.E.
Feb 5 and pleasant Middle and Latter part the same
So Ends Lat 5° 45' South

Wednesday (We have fine breeze from S.E. and pleasant
Feb 6 Middle and Latter part the same So Ends

Thursday (Commencing this day with fine breeze pleasant
Feb 7 latter Middle and Latter part the same
So Ends Lat 7° 35' Long by Chron 36° 30'

Monday New London 1837

Friday
Feb 8th

Coming this day with strong breeze from E. & E. S. and pleasant at 4 P. M. passed heavy tide ship and the water very green hard to anchor. Squall took in top gallantly and single reef. The top sail, middle part the same came in puff and blew heavy. Latter part the same the tide ship not so strong so ended Latter part Song by Choro 39.20 by Pines 10.20.3 per

Saturday
Feb 9th

Coming this day with strong breeze from E. & E. S. and pleasant. Middle part blowing took in the top sail the Latter part the same. Latter 10.20.3 per Song Choro 40.3

Sunday
Feb 10th

Beginning this day with fine breeze from E. & E. S. and pleasant. The middle part strong breeze and squally the Latter part the same. Latter 11.52.30. Song 43.30.7

Monday
Feb 11th

any better day
from 10 to 12
the same

Coming this day with strong breeze from E. & E. S. and pleasant. Set the top gallantly and the middle part. Latter part more pleasant. Latter 13.30. Song by Choro 43.58

Tuesday
Feb 12th

Beginning this day with strong breezes from E. & E. S. and squally. The middle part the same. The Latter part pleasant. Set the top gallantly and royals. Latter 14.51. Song 47.40

Wednesday
Feb 13th

Coming this day with fine breezes from E. & E. S. and pleasant. The middle part squally. Latter with rain the Latter part the same. Latter 16.30. Song by Choro 50.23 By which 50.08

Thursday
February 14th

We have fresh breezes from E. by S. and pleasant. The middle part the same. Set the reef out the top sail and set the standing sail and royals. The Latter part squally. Latter in the royals and standing sail and single reef. The top sail at 10.20.3 per. Set the top gallantly. Sent down the main. Latter yard. Latter 17.38. Song 52.30

Ship Clementis of New London 1839
 Commenced this day with fine breeze from S.W.
 and pleasant weather set all late sails in
 at 2 PM came on a heavy Squall look
 in at sail and ran before the wind at 3
 PM then the wind hauled round out west
 and blew harder than ever sails set
 at 7 AM her course to the lay and turned middle
 the same struck the Southern edge of the
 Gulf again latter part the gale broke
 & ended Lat 36° 59' Long 69° 58'

Saturday
 March 2
 at 6 AM
 at 10 AM
 at 11 AM
 Began this day more moderate set the
 main topsail and fore gale middle part
 set the fore topsail the latter part
 set the reef out of the topsails the wind
 to S.W. ~~at 11 AM~~ the Gulf sailed hook
 of the whales in the northern edge of
 sold a number of pieces of plank to En
 Lat 37° 30' Long 68° 30' West

Sunday
 March 3
 Commenced this day with strong breeze from
 S.W. double reefed the Yofis and reefed
 the mainsail middle part lost reef
 the main top gail and furl the fore sail
 latter got double reefed topsails to end
 Lat 38° 35' Long 69° 45'

Monday
 March 3
 Began this day with strong breeze from the
 S.W. and Snowy middle part the same
 latter part let out reef out of the Yof sails
 spoke the Ice Engineers of Plymouth Sound

Tuesday
 March 4
 Commenced this day with fine breeze from west
 Squall of Snow middle the same latter
 clear to end Lat 38° 06' Long 72° 05'

Wednesday
 March 5
 Began this day with fine breeze from S.W.
 and pleasant light ship and hauled north
 one sail in sight middle strong breeze down
 reefed the Yof sails latter more moderate
 Lat 39° 12' Long 64° 58' by Chronometer

1839 Toward New London Joseph & Bailey Master
Thursday Commenced this day with light breezes from West
March 6 heading S.E. & made all sail Middle part
Sailed a Spring to leeward steering the same way
at 11 P.M. Sounder had 35 fathom of water bot. to a
black sand latter part Strong breeze at 7 A.M. the
the Sand & bearing S by W dist 13 miles at 9 made
Mountank point N.W. at 10 Noon. a pilot so ended

Friday
March 7 Beginning this day with light breeze from S.W.
and pleasant at 3 P.M. came to anchor
1839 Tied the sails so ended this voyage

George G. Benjamin
Come all you told

Ship Climatis New London
Joseph & Bailey

Master 1839
Ship Climatis New London Joseph & Bailey
Master June 26

1839
Commenced this day with fine breezes from
W. S. W. and pleasant at 5 P.M. the pilot
left and we proceeded to sea 15 miles S.W.
N.E. dist 5 miles from which we take
our departure

Commenced this day with

My Dear Jack

I congratulate you
upon the success of your interest in so ready
acquiring such an eligible situation abroad
I think it my duty however to assure you
that all the advantages of this voyage chiefly
depend upon your proper behavior and
regulation of conduct. Avoid dissipation
and idleness which are very destructive
to health than which nothing can be more
near to you in strange climates. While
you seek for a fortune let justice

And honour be your guide and do not
the sake of humanity by taking an unworthy advantage
over the forlorn. I hope to see you before you depart
in order to add some thing to your purse and stock
that you may remember

1)
Your affectionate uncle

Whales seen and taken on board of the Ship
Chimney No London 1839 Joseph W. B. B. B.

Saw a School of Spum Whales July the 4 in Lat
Long 58° 20' Struck 2 and saved one the other took the

Spum
Wednesday In Lat 24° 20' Long 26° 20' West Saw
August 28 Spum whale struck him and he went
to kill or some other place of the beach.

September In Latitude 37° 38' Long 28° 30' East Saw a
Thursday 19 number of white whales feeding with their heads
out Struck 3 parted from one Oratoo from one
saved one blowing a gale of wind most of the
month of Sept

October 1839 Saw two white whales hoard did not get past
Tuesday 5th going quick to the west Lat 38° Long 36° 20'

Monday Saw one white whale turn flukes Saw no
October 14 more of him in Company with the Amazon
Capt Smith. 22° 30' 66° 24' Lat 31° 54' Long 92° 00'

Wednesday Saw 2 white whales hoard did not get past
October 16 Lat 34° 59' Long 97° 00'

Monday Saw 2 Spum whales hoard Struck
October 21 one killed him and cut him in 8 or 10

Friday Saw one white whale hoard and got him
November 8 1839 Lat 36° 30' Long 89° 30' the first
white whale that we have seen
on this ground of the West where
of New Holland

So Ends this Day

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